



**GOVERNMENT OF ASSAM
PRINCIPAL CUM CHIEF SUPERINTENDENT
JORHAT MEDICAL COLLEGE & HOSPITAL
JORHAT**

BIDDING DOCUMENT

**FOR EQUIPMENTS FOR THE DEPARTMENT OF NEUROSURGERY,
DERMATOLOGY, PSYCHIATRY, O&G AND PHYSIOLOGY**

FOR USE IN J.M.C.H. JORHAT

IFB NO. SMEJ/JMCH/1699/2015/4808 dated 30/07/2015

TWO BID SYSTEMS

Due for opening on

21/08/2015

at

4.00 PM

*Bidding Document issued to M/S.....
on datedagainst the receipt of Rs.1,000/-(Rupees One Thousand) only
in the form of Bank Draft/Bankers' Cheque No.....
Dated.....*

Principal-cum-Chief-Supdt. J.M.C. & H. Jorhat.

INVITATION FOR BIDS **(NATIONAL COMPETITIVE BIDDING)**

Principal cum Chief Superintendent, Jorhat Medical College & Hospital- Jorhat, Assam invites sealed Tender in two bid systems for supply, installation, testing & commissioning of **Equipments for the Department of Neurosurgery, Dermatology, Psychiatry, O&G and Physiology** , at Jorhat Medical College & Hospital , Jorhat, Assam.

CLOSING DATE & TIME FOR RECEIPT OF BIDS	21/08/2015	AT 1.00 PM
BIDS OPENING DATE AND TIME	21/08/2015	AT 4.00 PM

1. Bid schedule

Sl. No.	Name of Item (Psychiatry)	EMD
1	Electro Convulsive therapy(ECT) Machine (Sophiscated)	Rs. 5,000/-
2	Biofeedback Machine	
3	Digital Alcohol Breath Analyzer	
Sl. No.	Name of Item (O&G)	
1	Hysteroscopy and TCRE Set	Rs. 5,000/-
Sl. No.	Name of Item (Neurosurgery)	
1	Head Band Mounted Operating Loupe	Rs. 50,000/-
2	Intra Operative Neuro-Monitoring system	
3	Operation Theatre Light with Camera	
4	High speed Drill System for Neuro-surgery & Spinal Surgery	
5	Pneumatic Drill Machine	
6	C-Arm Image Intensifier TV System of Neurosurgery	
7	Endoscope system of Neurosurgery	
8	Head light of Neurosurgery	
9	MR Compatible Stereo Tactic Frame	
10	Operating Table for Neurosurgery with standard neuro attachment, Radiolucent Spinal Attachment	
11	Operating Chair for Surgeon and Assistant	
12	Ultrasonic Aspirator for Micro Neurosurgery	
13	Transcranial Doppler system 3D	
14	Image Guided neuro navigation system	
15	Operating Microscope for Neurosurgery	
16	Mayo Stand	
17	Hand Instruments for Neurosurgery	
Sl. No.	Name of Item (Dermatology)	
1	Electrocautery for dermatological use	Rs. 5,000/-
2	High Frequency Low temperature Radio surgery Surgitron FFPF EMC	
3	Photo Therapy Unit	
4	Microdermabrasion	
5	Q Switched Nd Yag Laser	
Sl. No.	Name of Item (Physiology)	
1	Computerized Autonomic & Vascular Function Testing System	Rs. 5,000/-

1. Bidding documents are available for sale at this office during the office hours on all working days from **30/07/2015** till 21/08/2015 upto 01:00 p.m, against payment of Tender Fee (non-refundable) as mentioned above each in the form of crossed Demand Draft in favour of the “Jorhat Medical College Hospital Users Fund” Payable at SBI- Jorhat Medical College Branch. Bidders desiring to have bidding documents by post shall have to submit a big size self-addressed envelope with above mentioned postal charges along with the Bank Draft as mentioned against each Deptt. The bidding documents can also be downloaded from the official web site of JMCH Jorhat (www.jmch.org.in). In case of bid documents downloaded from the website mentioned above the required fees as mentioned above shall have to be deposited at the time of submission of tender. In case of any disparity between the printed version of the tender documents sold through the Office and the downloaded version, the printed will prevail.
2. It is the responsibility of the Bidder to ensure that their Bid documents are dropped in the Tender Box in the office of the Principal-cum-Chief- Supdt. J.M.C.&H. Jorhat within the stipulated date and time as mentioned in the IFB. In case the bid documents are sent by post or by courier, the time and date of depositing the bid documents at the office shall be countersigned by a responsible officer of this Office. The Principal will not undertake any responsibility whatsoever for postal delay in process of submission of Bids. Any appeal for alternation in the Technical Specifications, the bidders may submit their petition to the undersigned within 7 (seven) days from the date of issue of the Tender Notice.
3. Henceforth, any corrigendum/addendum related to this Bid/Tender may kindly be seen at the official website of Principal, JMCH, Jorhat
4. The Vendor shall quote separately the price for the Indigenous and Imported make. In that case the price evaluation will be done separately for Indigenous make and foreign make.
5. The bid documents are not transferable.
6. In the event of any of the above mentioned dates being declared as a holiday / closed day in the purchasers’ Organization, the Bids will be sold / received / opened on the next working day at the appointed time.
7. The Bidders have to submit their bids department wise in two bid system separately enclosing the technical bid and financial bid in separate sealed cover and to club in a sealed envelope indicating the name of the department.
8. The bidder must furnish EMD of the items quoted department wise in the form of demand draft to be drawn in favour of Jorhat Medical College Users’ Fund.
9. The Principal cum Chief Superintendent, JMCH, Jorhat reserves the right for any edition / alteration in the bid documents if required 10 days before submission of last date of tender.

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SCHEDULE-1

TERMS AND CONDITIONS:

1. This Invitation For Bids (National Competitive Bidding) is open to all eligible manufacturer and/or their accredited dealers
2. Bid must reach the office of the Principal-cum-Chief- Supdt. Jorhat Medical College & Hospital, Jorhat as in the date and time as stipulated in the IFB. A late Bid will not be accepted under any circumstances and for reasons what so ever.
3. All Bids duly sealed must be addressed to the Principal-cum-Chief- Supdt. Jorhat Medical College & Hospital, Jorhat and IFB No. with Name of the Deptt. Should be **super scribed prominently** in the covering envelope along with full name and address of the Bidder.
4. The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the Principal cum Chief Superintendent, JMCH, Jorhat, herein after referred to as “the Purchaser” will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the tender process.
5. It is the responsibility of the Bidder to ensure that their Bid documents are dropped in the Tender Box in the office of the Principal-cum-Chief- Supdt. Jorhat Medical College & Hospital, Jorhat within the stipulated date and time as mentioned in the IFB. In case the bid documents are sent by post or by courier, the time and date of depositing the bid documents at the office of the Principal-cum-Chief- Supdt. Jorhat Medical College & Hospital, Jorhat has to be countersigned by the dropping authority of the bid documents. The Principal-cum-Chief- Supdt. Jorhat Medical College & Hospital, Jorhat will not undertake any responsibility whatsoever for postal delay in process of submission of Bids.
6. The Bidder is expected to examine all instructions, forms, terms and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the bidder’s risk and may result in the rejection of its bid.
7. **Bidders shall submit their bids in two parts as under:**
 - a) **Technical bids**, in triplicate, consisting of technical details bringing out clearly in a separate sheet, the deviations in specifications if any from that of ‘Technical Specifications’ and also clause-by-clause compliance of specifications along with the commercial terms and conditions and bid security.
 - b) **Price bids** showing only item wise prices in a separate sealed cover inside the main cover.
 - c) It may be noted that when the main cover is opened on the date and time scheduled for Bid opening, only the technical bids will be opened and read out in public.
 - d) Bidders whose technical bids are found substantially responsive will be informed of the date and time of opening of their price bids. Price bids of others will be returned to them unopened before opening the price bids of others.The Bids should be duly marked and sealed, as “Original”, “Duplicate” and “Triplicate”. The sealed bids viz. Original, Duplicate and Triplicate of Technical and Price Bids as mentioned above should be put together finally in a big envelope, which should be sealed as per the clause 3 above.

8. It may be noted that Technical bids will be opened and read out in presence of bidders or their authorized representative if they desire to remain present on the date and time scheduled for Bid opening,
9. The original, duplicate and triplicate copies of the bid shall be typed or written in indelible ink and shall be signed by the bidder or a person or persons duly authorized to bind the bidder to the contract. Written power-of-attorney accompanying the bid shall indicate the letter of authorization. The person or persons signing the bid shall initial all pages of the bid, except for un-laminated printed literature.
10. In the event of any discrepancy between original, duplicate and triplicate bids, the original shall govern.
11. The bidder shall complete the bid forms and the appropriate price schedule (**Annexure-II and Annexure-III**) furnished in the bidding documents, indicating for the goods to be supplied, a brief description of the goods, their country of origin, quantity and prices.
12. For comparison of bids, the purchaser will grant a margin of preference to goods in accordance with the Govt. standing procedures, provided the bidder shall have established to the satisfaction of the purchaser that the goods are eligible for price/purchase preference.
13. However, the quantum of price/purchase preference to be allowed shall be determined by the purchaser on the merits of individual cases based on the prevailing Government policy as per the Assam Preferential Store Purchase Act and his decision shall be final and binding and the purchaser and/or the Government of Assam shall entertain no representations on this ground.
14. To assist in the examination, evaluation and comparison of bids, the purchaser may, at its discretion, ask the bidder for a clarification of its bid. The request for clarification and the response shall be in writing and no change in the price or substance of the bid shall be sought, offered or permitted.
15. The purchaser will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required EMD has been furnished, whether the document have been properly signed, whether the bid validity is as required and whether the bids are generally in order.
16. **Bid from accredited dealers without proper authorization from the manufacturers shall be treated as non-responsive and shall be rejected.**
17. The bid shall remain valid for 365 (three hundred and sixty five) days after date of bid opening. The Purchaser shall reject a bid valid for a shorter period. In exceptional circumstances, the purchaser may solicit the bidder's consent to an extension of the period of tender validity. The request and the responses thereto shall be made in writing. The EMD (bid security) provided under clause 19 shall also be suitably extended. A bidder may refuse the request without forfeiting its bid security. A bidder granting the request will not be required nor permitted to modify its bid.
18. The contract should be completed within 45 days from the issue of formal supply order.

- 19. The bidder must furnish EMD (bid security) as per the schedule of requirement unless otherwise exempted under Govt. Orders/Rules in force.**
20. **The EMD** (bid security) shall be demonstrated in the Indian Rupees and shall be in one of the following forms:
- a) Post Office Cash Certificates, National Savings Certificates (Certificates which are not held in the name of the bidder shall not be accepted).
 - b) Post Office Savings Bank Pass Book and
 - c) Deposit Receipts or Bank Guarantees (in the prescribed pro forma given at **Annexure-XI** issued by any of the scheduled banks).
21. Any bid from a bidder who fails to furnish EMD (furnish a notarized copy of the registration certificate for the item quoted), not secured in accordance with clause 19 and 20 will be summarily rejected by the purchaser, as non-responsive.
22. Unsuccessful bidder's EMD (bid security) will be discharged / returned as promptly as possible. The bidders are advised in their own interest to send a pre-receipted challan along with their bid so that the return of EMD (bid security) after the bid have been rejected, is made within the stipulation period.
23. The successful bidder's EMD (bid security) will be discharged /returned upon the bidder executing the contract and after furnishing the Performance security, pursuant to clause 32.
- 24. The prices must be quoted in Indian Rupees for both indigenous and imported make. Bids, where prices are quoted in any other way shall be treated as non-responsive and rejected. The bidder shall indicate on the appropriate price schedule (Annexure-III) attached to these documents the unit prices and total bid prices of goods it proposed to supply under the contract.**
25. The Purchaser will technically evaluate all bids previously determined to be responsive and compare the bids previously determined to be substantially responsive and technically acceptable.
26. The Purchaser's evaluation of a bid will include and take into account:
The goods manufactured indigenously or goods of foreign origin already located in India: excise duty, sales tax and other similar taxes and duties, which will be payable on the goods if a contract is awarded to the bidder and the purchaser's evaluation of a bid will exclude and not take into account the additional features like training in India or abroad offered free or at an additional cost unless specifically asked for in the 'Technical Specifications'.
27. The comparison shall be of F.O.R. site and delivered and commissioned at consignee's end. The purchaser's evaluation of bid will take into account, in addition to the bid price and the price of incidental services, the following factors, in the manner and to the extent indicated in clause 28 and in the 'Technical Specifications':
- a) Cost of inland transportation and other costs within India incidental to delivery of the goods to their final destination at consignee's site,
 - b) delivery schedule offered in the bid,
 - c) deviations in payment schedule from that specified under clause 49.
 - d) the cost of guarantee/warranty and
 - e) the Performance and productivity of the equipment offered.

28. Pursuant to clause 27, following evaluation methods will be followed:

a) **Inland transportation, insurance and incidentals:**

Bidder shall quote separately for inland transportation, insurance and other incidentals for delivery of goods to the site.

b) **Applicable Taxes:**

Bidder shall quote separately for all applicable taxes payable to the Govt. for delivery of goods to the site.

29. Purchaser's right to accept any bid and to reject any or all bids: The purchaser reserves the right to accept or reject any bid and to annul the bidding process and reject any or all bids at any time prior to award of contract, without thereby incurring any liability to the affected bidder or bidders or any obligations to inform the affected bidder or bidders of the grounds for the purchaser's action.

30. Notification of award: Prior to the expiration of the period of bid validity, the purchaser will notify the successful bidder in writing, by registered letter or by cable or telex or fax (to be confirmed in writing by registered letter), that its bid has been accepted. The notification of award will constitute the formation of the contract.

31. Signing of contract: At the same time, the purchaser notifies the successful bidder that its bid has been accepted, the purchaser will send the bidder the contract form provided in the bidding documents, incorporating all agreements between the parties. The successful bidder shall sign and date the contract form provided in the document. A registered Power of Attorney is to be supported with the bid in favour of the person(s) who will sign the bid as well as contract form if contract is awarded. (**Annexure-XIII**)

32. Performance Security: Immediately after the receipt of notification of award from the purchaser, the successful bidder shall furnish the Performance Security. The supplier shall furnish Performance Security to the purchaser for an amount of **5% (Five percent)** of the order value, valid for the entire period of warranty.

However, if the supplier fails to execute the order or fails to perform the services as per contract in addition to other panel actions, the performance security shall be encased & the amount forfeited.

33. Failure of the successful bidder to comply with the requirement of clause 31 or clause 32 shall constitute sufficient grounds for the annulment of the award and forfeiture of the EMD (bid security), in which event the purchaser may like the award to the next lowest evaluated bidder or call for new bids.

34. The proceeds of the Performance Security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete its obligations under the contract.

35. The Performance Security shall be denominated in the Indian Rupees and shall be in one of the following forms:

- a) Post Office Cash Certificates, National Savings Certificates (Certificates which are not held in the name of the bidder shall not be accepted),
- b) Post Office Saving Bank Pass Book and
- c) Deposit Receipts or Bank Guarantees (in the prescribed pro forma given at **Annexure-XII** issued by any of the scheduled banks).

- 36. Inspection and tests:** The purchaser or its representatives shall have the right to inspect and/or to test the goods to confirm their conformity to the contract. The purchaser shall notify the supplier in writing of the identity of any representatives for this purpose.
- 37.** The inspections and tests may be conducted on the premises of the supplier, at point of delivery and/or at the goods final destination, where conducted on the premises of the supplier, all reasonable facilities and assistance including access to drawings and production data shall be furnished to the inspectors at no charge to the purchaser. Should any inspected or tested goods fail to conform to the specifications, the purchaser may reject them and the supplier shall either replace the rejected goods or make all alterations necessary to meet specification requirements free of cost to the purchaser, within a period of **15(fifteen)** days of intimating such rejection. The purchaser's right to inspect, test and, where necessary, reject the goods after the good's arrival at the final destination shall in no way be limited or waived by reason of the goods having previously been inspected, tested and passed by purchaser or its representatives prior to the goods dispatch from the place of manufacture.
- 38.** Nothing in clause 37 shall in any way release the supplier from any warranty or other obligations under the contract.

39. Qualification Criteria:

1. The bidder must be a manufacturer or their accredited dealers (specifically against this IFB for the subject goods) and had successfully executed contracts for similar and/or identical goods in the past three years prior to the date of Tender opening. In support of this, the bidder shall furnish Performance statement in the enclosed **Annexure-I**.
2. Notwithstanding anything stated above, the purchaser reserves the right to assess the bidder's capability and capacity to perform the contract satisfactorily before deciding on award of contract, should circumstances warrant such an assessment in the overall interest of the purchaser.

40. Warranty:

- i. The supplier warrants that the goods supplied under the contract are new, unused, or the most recent of current models and incorporate all recent improvements in design and materials unless provided otherwise in the contract. The supplier further warrants that the goods supplied under the contract shall have no defect arising from design, materials or workmanship (except insofar as the design or material is required by the purchaser's specifications) or from any act or omission of the supplier, that may develop under normal use of the supplied goods in India, i.e. the country of final destination.
- ii. **The warranty should be as per the period mentioned in the Technical Specification (i.e., three years).**
- iii. The purchaser/indenter shall notify the supplier in writing of any claims arising under this warranty.
- iv. Upon receipt of such notice, the supplier shall, with all reasonable speed, repair or replace the defective goods or parts thereof, free of cost at the ultimate destination. The supplier shall take over the replaced parts/goods at the time of their replacement. No claim whatsoever shall lie on the purchaser for the replaced parts/goods thereafter.
- v. If the supplier, having been notified, fails to remedy the defect(s) within a reasonable period, the purchaser may proceed to take such remedial action as may

be necessary, at the supplier's risk and expense and without prejudice to any other rights which the purchase may have against the supplier under the contract.

- vi. The warranty for defective parts will begin de novo from the date of replacement. Supplier will pay customs duty and all expenses up to the destination for the replaced part.

41. Reasonability of rates/ firm price:

- i. The bidder shall certify that the rates quoted are the lowest ones for any institution in the country.
- ii. During the period of the contract, if the price of any tendered item is reduced due to any reason including any Law or Act of the Central/State Government, the bidder shall be statutorily bound to intimate the reduced rates immediately to the purchaser and shall charge the reduced rates. The purchaser is empowered to unilaterally effect such reduction as is necessary in rates, in case the bidder fails to notify or fail to agree to such reduction of rates.
- iii. Subject to the condition stipulated above, the prices shall remain firm for the validity period of tender and on no account any increase in price shall be entertained till completion of the tender period.
- iv. No bidder will be allowed at any time on any ground whatsoever, to claim revision of or modification in the rates quoted by him. The representation of the bidder that computation/ typographical or clerical error etc. has been committed in the bid and request for reversion on such plea shall not be entertained after opening of the bid.

42. Contacting the Purchaser: Subject to clause 18, no bidder shall contact the purchaser on any matter relating to its bid, from the time of the bid opening to the time the contract is awarded. Any effort by a bidder to influence the purchaser in the purchaser's bid evaluation, bid comparison or contract award decisions shall result in the rejection of the bidder's bid and also banning of business dealings with the bidder for a period of three years from the date of such ban.

43. Documents establishing good's eligibility and conformity to bidding documents:

The bidder shall furnish, as part of its bid, documents establishing the eligibility and conformity to the bidding documents of all goods and services, which the bidder proposes to supply under the contract. The documentary evidence of the goods and services eligibility shall consist of a statement in the price schedule. The documentary evidence of the goods and services conformity to the bidding documents may be in the form of literature, drawings and data and shall furnish:

- i. A detailed description of the goods essential technical and Performance characteristics,
- ii. A list giving full particulars, including available sources and current prices, of all spare parts, special tools, etc., necessary for the proper and continuing functioning of the goods for a period of years, following commencement of the goods used by the purchaser and
- iii. A clause-by-clause commentary on the purchaser's 'Technical Specification' demonstrating the goods and services substantial responsiveness to those specifications or a statement of deviations and exceptions to the provisions of the 'Technical Specifications'.

44. Definition of Technical Specification: For purposes of the commentary to be furnished to clause 43 (iii) above, the bidder shall note that standards of workmanship, material

and equipment and references to brand names or catalogue numbers designated by the purchaser in its 'Technical Specifications' are intended to be descriptive only and not restrictive. The bidder may substitute alternative standards, brand names and/or catalogue numbers in its bid, provided that it demonstrates to the purchaser's satisfaction that the substitutions are substantially equivalent or superior to those designated in the 'Technical Specifications'.

45. Statutory taxes/ duties :

In case of any enhancement of Taxes and/ or duties or levy of fresh Taxes/ duties due to Statutory Act of the Govt., after date of submission of the tenders and during the contractual delivery period, additional or fresh levies so imposed will be allowed to be claimed as extra without any change in the price structure approved under the tender. For this purpose, the supplier shall produce a certificate from the authority concerned certifying that the item supplied falls under particular tariff resulting in additional/ fresh levies for the supplied item.

However, the same shall not be borne by the purchaser in case such levies become applicable after expiry of the contractual delivery period stipulated in the contract.

Further, in case the bidder has been enjoying Excise Duty exemption on any criteria like turnover etc. and at a later date, during currency of the contract, even if Excise Duty becomes chargeable on goods manufactured, the same shall be to the supplier's account and shall not be borne by the purchaser.

46. Penalty for delay in delivery:

Non-performance of the contract provisions may make the bidder liable to be disqualified to participate in any tender for the next 5 years, in addition to forfeiture of EMD / Performance Security and other penal provisions.

47. Force majeure:

The above condition of delivery period, price reduction & termination etc. are subject to force majeure conditions which are beyond the control of the supplier, do not involve fault or negligence of the supplier and are not anticipated. Such events may include but are not limited to riots, mutinies, war, fire, storm, tempest, flood, epidemics, or other exceptional causes like quarantine restrictions, freight embargoes. On specific request made by the supplier the time period of supply may be extended by the purchaser at his discretion for such period as may be considered reasonable. However, the condition shall not include scarcity of raw materials, power cut, labour dispute, failure of sub-vendor and increase in cost of raw material.

48. Fraud & Corruption:

The bidders, suppliers & contractors shall observe the highest standard of ethics during bidding and during performance of the contract. For the purposes of this provision, the following acts shall be considered as corrupt and / or fraudulent practices -

- a) Undertaking of the no Fraudulent Corrupt practices.
- b) "Fraudulent Practice" means misrepresentation or omission of facts in order to execution of contract.
- c) "Collusive practice" means a scheme or arrangement between two or more bidders, with or without the knowledge of the purchaser, designed to establish bid prices at artificial, non-competitive level.
- d) "Coercive Practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process or in execution of a contract.

During the process of evaluation of a bid or proposal for award of a contract, if it is detected that a bidder directly or through agent has engaged in corrupt, fraudulent, collusive or coercive practice in competing for the contract in question, then a) the bid shall be rejected and b) declare the firm ineligible for a specific period or indefinitely to participate in a bidding process.

In the bid document itself, an undertaking has to be furnished in the format at **Annexure-VII**.

49. Local conditions:

It will be imperative on the bidder to fully acquaint himself of all local conditions and factors that would have any effect on performance of the Contract. The purchaser shall not entertain any request for clarifications from the bidder regarding such local conditions nor shall accept any offer conditional to the local factors. No request for any change of price or extension of time schedule of delivery of goods shall be entertained after purchaser accepts the bid.

50. Adjudication/Review board:

Any dispute arising out of or during execution of the contract shall be settled with mutual agreement through an Adjudication/Review Board appointed by the Health & F.W. Department, Govt. of Assam.

51. Saving clause:

No suit, prosecution or any legal proceedings shall lie against Tender Inviting Authority or any person for anything that is done in good faith or intended to be done in pursuance of tender.

52. Laws governing the contract & jurisdiction:

The contract shall be interpreted in accordance with the laws in force in India. All disputes shall be subject to the jurisdiction of appropriate court situated at Guwahati/Jorhat.

53. Payment Terms:

1. **Source of Fund:** The Health & F.W. Department, Govt. of Assam
2. **Procedure for payment:** The paying authority on production of the following documents shall make 100% Payment.
 - a. Invoice in triplicate are to be submitted to the paying authority along with the other documents after completion of the supply.
 - b. Stock Entry Certificate is to be obtained in the body of the Invoice in triplicate.
 - c. The original Challan Copy.
 - d. Test certificates installation certificates.
 - e. Warranty certificates.

54. The bidder must submit the following documents along with the others as mentioned above in the Technical Bid with their tender:

- i. Up to date valid VAT clearance certificate.
- ii. Up to date valid manufacturing license.
- iii. GRN/TIN and PAN.

- iv. Literature/catalogue/leaflet in support of the tendered item.
- v. Up to date dealer/ distributor certificate.
- vi. ISO/GMP and other quality certificate issued from competent authority as detailed.
- vii. Declaration on details of manufacturing unit, installed capacity of the item quoted, testing facilities and nearest after sales service facility with details of technical personnel, along with non - conviction certificate/ declaration for the past 3 years. (**Annexure V**)
- viii. **Last 3(three) years Turn Over Rs.5.00 Crores for Neuro Surgery** and Rs. 2.00 for Others and Statement for the last 3 financial years i.e. 2012-2013, 2013-2014, and 2014-2015 in the specified format (**Annexure VI**) certified by the Auditor/ Chartered Accountant. Bidders has to submitted statement of account, profit and loss or the year 2012-2013, 2013-2014, and 2014-2015.
- ix. Undertaking in the form at **Annexure-VII** confirming acceptance of all terms and conditions of the tender
- x. An undertaking on fraud and corruption as per **Annexure-VIII**
- xi. Manufacturer Authorization letter as per the format enclosed at **Annexure-IX**.
- xii. The bidder shall impart education and training to upgrade the skills of the medical professionals at various levels for which a tentative programme shall be submitted.
- xiii. The bidders shall duly fill in the agreed terms and conditions as per **Annexure X**.

55. Additional Terms and Conditions:

- a. Total monetary value of similar nature of work performed during each of the last three years must be furnished by the bidder which are as follows:
 - i) Experience in works of a similar nature and size for each of the last three years, and details of works underway or contractually committed; and clients who may be contacted for further information on those contracts;
 - ii) Evidence of access to line (s) of credit and availability of other financial Resources facilities (20% of Contract Value), certified by the Bankers (Not more than 3 Months old);
 - iii) Authority to seek references from the Bidder's Bankers;
 - iv) Information regarding any litigation, current or during the last three years in which the Bidder is involved, the parties concerned, and disputed amount;
- b. Bids from Joint ventures are not acceptable.
- c. The bidder must be a profit making one for the last three years.
- d. Information on Bid Capacity (works for which bids have been submitted and works which are yet to be completed) as on date of this bid.
- e. The bidder shall impart education and training to upgrade the skills of the medical professionals at various levels for which a tentative programme shall be submitted.
- f. **The bidder shall provide backup services of trained Technical Personnel on 24 hours basis for emergency programming. Complaints should be attended properly, maximum within 8 hours. The service should be provided directly by Tenderer /Indian Agent. Undertaking by the Suppliers that the spares for the equipments shall be available for at least 10 years for the date of supply.**
- g. Bid shall be type – written and correction, if any, in the bid shall invariably be attested with full signature by the bidder with date, failing which the bid shall be considered ineligible for evaluation. Corrections done with correction fluid shall also be duly attested.

56. Warranty:

- a) The warranty charges shall not be quoted separately.
- b) 95% up time Warranty of complete equipment with extension of Warranty period by double the downtime period on 24 (hrs) X 7 (days) X 365 (days) basis.
- c) All software updates should be provided free of cost during Warranty period, CMC, AMC.

57. Training:

On Site training to Doctors/ Technicians/ staff is to be provided by Agents (if they have the requisite know-how) for operation and maintenance of the equipment to the satisfaction of the user department.

58. AMC/CMC

a) The cost of AMC will be added in case of equipments which are less than total unit price of Rs. 10 lakhs. In case of equipments, whose total unit price is above Rs. 10 lakhs, CMC will be calculated for ranking /evaluation purpose.

b) The cost of Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/ service /operational manual of the manufacturer, labour and spares, after satisfactory completion of Warranty period may be quoted for next 3 years on yearly basis for complete equipment (**including all spares and labour**).

c) The cost of CMC may be quoted along with taxes applicable on the date of Tender Opening. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.

d) Cost of AMC/CMC will also be added for Ranking/Evaluation purpose.

e) The payment of CMC will be made on yearly basis after satisfactory completion of said period, duly certified by end user on receipt of bank guarantee for 2.5 % of the cost of the equipment (as per Annexure-IV) valid till 2 months extra after expiry of entire CMC period.

f) The Performance Bank Guarantee for CMC will be applicable in case of equipment cost is more than Rs. 10.00 Lacs.

g) There will be the All software updates should be provided free of cost during CMC.

i) The payment of CMC will be made on annual basis after satisfactorily completion of said period. 95% uptime warranty during CMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CMC period by double the downtime period.

The CMC price {not more than 10% cost of the equipment, otherwise offer will be out rightly rejected} for next 3 years, which should include cost of labour & spares for entire equipment. The CMC cost will be taken into consideration for price comparison. The CMC price should be filled in commercial bid only.

**SAMPLE FORMAT FOR EVIDENCE OF ACCESS TO OR
AVAILABILITY OF CREDIT FACILITIES**

BANK CERTIFICATE

This is to certify that M/s

.....

..... Is a reputed company with good financial standing.

If the contract for the work, namely

.....

..... is awarded to above
firm, we shall be able to provide overdraft/credit facilities to the extent of Rs.

.....

..... to meet their working capital requirements for executing the
above during the contract period.

(Signature)

Name of the Bank

Senior Bank manager

Address of the Bank

Address of the Purchaser/Paying authority:

**The Principal-cum-Chief-Jorhat Medical College & Hospital,Jorhat.
Consignee:**

Installation site: Jorhat Medical Colleges & Hospital, Jorhat.

SCHEDULE-2
SCHEDULE OF REQUIREMENT

Part-I

Name of the Deptt.	Name of Items	Tender Fee	EMD (Bid Security)
Neurosurgery, Dermatology, Psychiatry, Obs & Gynae, Physiology	Machinery Equipments at Schedule 3 (Part I) from page 18 to 61 and Hand Instrument of Neurosurgery at Schedule 3 (Part II) from page 62 to 89	Rs. 1,000/-	
	.		
Warranty :			
AMC/CMC :			

Note:

- Bidder must affixed court fee stamp (I.P.O in case of Bidders outside the State of Assam) of Rs.8.25 (Rupees eight and paisa twenty five only) on the Technical Bid (Original Copy).
- Bidder should submit a soft copy (in CD) of Technical Bid in MS WORD format (only technical specifications/details of the goods and services proposed to be supplied under contract) to help in preparation of Comparative Statement which should be inserted in the Technical Bid (Original Copy). Any discrepancy between soft and hard copy, the hard copy (printed and signed documents) shall prevail.**
- All the materials should be well packed to avoid any breakage during transit.
- The responsibility for providing after sale service would rest on the Principal equipment supplier.
- The Principal suppliers shall be solely responsible for warranty period and maintenance of the equipment even if there is any change in the accredited dealer during the above period.
- Bidders shall submit their bids in two parts.**
- Bid security (EMD) to be furnished in favour of “Jorhat Medical College Hospital Users Fund”
- Bidders shall submit their Performance statement as per Performa along with certificate from the users and copy of the orders for the equipment quoted.
- The quantity mentioned is only the tentative requirement and may increase or decrease as per the decision of Tender Inviting Authority. The rates quoted should not vary with the quantum of the order or the destination.**

PART-II: SCOPE OF INCIDENTAL SERVICES:

- A. Installation, Commissioning, Demonstration, on-site training, Performance Supervision of on-site assembly, Start-up of the supplied Goods.
- B. The bidder shall impart education and training to upgrade the skills of the medical professionals at various levels for which a tentative programme shall be submitted.
- C. Detailed Operations and Maintenance Manual for each appropriate unit of the supplied Goods are to be provided by the successful bidder.

PART-III: TERMS OF DELIVERY

The equipment has to be delivered at the site of the following Institutions:

- i. Principal cum Chief Superintendent, JMC&H, Jorhat

The periodic requirement of medical college will be directly communicated to the supplier by letter / fax / e-mail / telephone and the same shall be delivered to the indenting authority without any delay.

SCHEDULE-3 (Part I)
Technical Specifications of Machinery Equipments

Sl No	Name of Items	Specification	Department																																																															
1	Electro Convulsive therapy(ECT) Machine(Sophisticated)	<p>Should have most advance Feature control through computer software as well as switches (without computer, printer & monitor). Brief Pulse includes Carry Case-1, Head band-1, Operating manual-1, Jelly-1, Mouth gag-1, Velcro electrode-1, spare fuses-1 Along with Computer, Monitor & Printer, Charge: 60 to 540 mc (9 Steps) in standalone mode.</p> <table border="1"> <tr> <td></td><td>Parameters</td><td>Standalone Mode</td><td>Computer Mode</td></tr> <tr> <td rowspan="7">Output</td><td>Constant currentPulse amplitude</td><td>800 mA</td><td>200 to 1000 mA</td></tr> <tr> <td>Pulse width</td><td>1.5 ms</td><td>0.5 to 2 ms</td></tr> <tr> <td>Frequency</td><td>125 PPS</td><td>50 to 200 PPS</td></tr> <tr> <td>Duration</td><td>0.4 to 3.6 Sec</td><td>0.1 to 20 Sec</td></tr> <tr> <td>Charge</td><td>60 to 540 mC(9 Steps)</td><td>Variable</td></tr> <tr> <td>Pulse waveform</td><td colspan="2">Bidirectional</td></tr> <tr> <td>Interface to the computer</td><td colspan="2">Through USB / RS 232 Port.</td></tr> <tr> <td rowspan="2">Input</td><td>AC</td><td colspan="2">230V, + / - 10%, 50 Hz</td></tr> <tr> <td>Trigger</td><td colspan="2">Remote on hand - held electrode</td></tr> <tr> <td rowspan="5">Built-in Safety</td><td>Timer Control</td><td>Electronic</td><td>Electronic & Computer</td></tr> <tr> <td>Opto-Isolation from Computer</td><td>Not applicable</td><td>Available</td></tr> <tr> <td>Transformer Isolation</td><td>Yes</td><td>Yes</td></tr> <tr> <td>Relay Isolation</td><td>Yes</td><td>Yes</td></tr> <tr> <td>Auto and visual Indication</td><td>Yes</td><td>Yes</td></tr> <tr> <td rowspan="2">Mechanical</td><td>Dimensions , Weight</td><td colspan="2">290 x 250 x 80 mm, Approx. 5 Kgs, Plastic casing</td></tr> <tr> <td>Amplifier Gain</td><td colspan="2">1000</td></tr> <tr> <td rowspan="2">EEG Module</td><td>Frequency Band</td><td colspan="2">0.5 to 100 Hz</td></tr> <tr> <td>Sampling rate</td><td colspan="2">1000 samples per second per channel</td></tr> </table>		Parameters	Standalone Mode	Computer Mode	Output	Constant currentPulse amplitude	800 mA	200 to 1000 mA	Pulse width	1.5 ms	0.5 to 2 ms	Frequency	125 PPS	50 to 200 PPS	Duration	0.4 to 3.6 Sec	0.1 to 20 Sec	Charge	60 to 540 mC(9 Steps)	Variable	Pulse waveform	Bidirectional		Interface to the computer	Through USB / RS 232 Port.		Input	AC	230V, + / - 10%, 50 Hz		Trigger	Remote on hand - held electrode		Built-in Safety	Timer Control	Electronic	Electronic & Computer	Opto-Isolation from Computer	Not applicable	Available	Transformer Isolation	Yes	Yes	Relay Isolation	Yes	Yes	Auto and visual Indication	Yes	Yes	Mechanical	Dimensions , Weight	290 x 250 x 80 mm, Approx. 5 Kgs, Plastic casing		Amplifier Gain	1000		EEG Module	Frequency Band	0.5 to 100 Hz		Sampling rate	1000 samples per second per channel		Psychiatry
	Parameters	Standalone Mode	Computer Mode																																																															
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2	Biofeedback Machine	(Without computer, Printer & Monitor) windows based along with the following features & standard accessories. Switch on the main switch fixed in back side, Useful for self relaxation & Meditation, GSR value displayed in K-Ohms, Sensitivity in 3 steps-2, 5, 10%, mains operated. Red, Green lights for feedback response includes-GSR electrodes-1, Operating manual-1	Psychiatry
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	3 Digital Alcohol Breath Analyzer		Psychiatry
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Sl No	Name of Items	Specification	Department
1	Hysteroscopy and TCRE Set	4.0 mm 30degree Diagnostic & Operative hysteroscopy with all operating accessories like. 1. Semi flexible Biopsy Forceps 2. Semi flexible scissors 3.Semi flexible (double action) grasper 4. Continuous flow resectoscope sheath set (inner & outer) 5. 90 degree cutting loop electrode 6. Tubal cannulation device	O & G
Sl No	Name of Items	Specification	Department
1	Head Band Mounted Operating Loupe	<ol style="list-style-type: none"> 1. Head band mounted light weight system < 600 gms. 2. Working distance: 300 -600 mm. 3. Focusing: Auto focus through infra red beam. 4. Magnification: 3.6 -7.2 X, controlled through a footswitch. 5. Automatic Parallax adjustment. 6. Field of Vision: 30 -144 mm. 7. Swiveling angle: 60 degree. 8. Distance between the two eye pieces should be adjustable; 115 -120 mm. 9. Should have individual adjustment of defective vision for Far /Short sightedness and stigmatism. 10. Head light: LED source. 11. Capable of prolonged operation by connecting to mains. 12. Standby power pack incorporated. 13. Carrying case: Aluminum flight case. 14. Should be CE, FDA, UL or BIS approved product. 15. Spares should be available for the next 10 years. 	Neurosurgery

2	Intra Operative Neuro-Monitoring system	<p>The system should be a portable; laptop based intra-operative minimum 32 channels Neuromonitoring system.</p> <p>Should be capable of Surgeon –directed and neurophysiologist-supported capabilities in one system.</p> <p>Should be capable of comprehensive Electroencephalography (EEG), Electrophysiology (EP), and Electromyography (EMG) monitoring with integrated remote monitoring capabilities.</p> <p>All Electrophysiological modalities including Somatosensory Evoked Potential (SSEP), Motor Evoked Potential (MEP), Auditory Evoked Potential (AEP), Brainstem Auditory Evoked Potential (BAEP), Visual Evoked Potential (VEP), should be recordable in the same system.</p> <p>Should be capable of</p> <p>Electronic of hard copy screen shot storage.</p> <p>Electronic data storage of the entire procedure including EMG audio (recordable and Reviewable)</p> <p>Electro surgery Unit (ESU) interference muting,</p> <p>Built in pulse oximeter</p> <p>Biphasic stimulation for Transcranial electric motor evoked potentials (TceMEPs)</p> <p>More than 10 multimodality sets should be defined within a test protocol.</p> <p>All trace parameters (filter, amplifilter, gain, artifact rejection, time base display scale etc) should be fully user adjustable and independent.</p> <p>Free running, averaged or signal triggered data collection modes.</p> <p>Modules for easy EMG & MEP testing from the sterile field</p> <p>Data should be saved and retrievable manually or automatically as continuous EEG, free run EMG, Triggered EMG, EMG audio, updated aceraged EP, Screen snapshots and video.</p> <p>Previously saved data should be reviewed while monitoring. Should be able to review and monitor data locally or remotely via network, modem or internet.</p> <p>Standard test protocols should be provided and can be modified and saved by user.</p> <p>All patient connections should be both software and hardware protected against faults.</p> <p>Automatic pedicle screw integrity test mode.</p> <p>Module for easy EMG & MEP testing from the sterile field.</p> <p>Independent high and low electrical stimultors for peripheral and direct nerve monitoring, Extensive stimulus triggering including repetitive, non-repetitive, single, pair and train.</p> <p>Reports should be automatically generated for every test and contain all necessary test information and additional user-specified information.</p> <p>Complete range of accessories and disposables for all monitoring modalities</p> <p>Facility for stimulation and monitoring of facial nerve and other cranial nerves, both bipolar and monopolar (1 piece each should be supplied)</p> <p>Peripheral nerve stimulator should be provided.</p> <p>Laptop with latest Intel Core, 4GB RAMS, 500GB or better Hard disc.</p>	Neurosurgery

		<p>Should Support:</p> <p>8-channel EMG, MEP and Train of four modalities.</p> <p>2 channel Pulse Ox recording</p> <p>Automated report generation for pedicle screw stimulation including Percutaneous pedicle screw insertion.</p> <p>Fully surgeon controllable from the sterile field</p> <p>Multiple manual and triggered EMG modes of operation</p> <p>Audible and visual surgeon feed back</p> <p>Should have following Surgeon –Directed capabilities:</p> <p>Surgeon controlled Probe</p> <p>Giving surgeon full control from the sterile field</p> <p>Should allow surgeon to increase or decrease current, change the monitoring test mode, and print reports.</p> <p>Should support below mentioned Nerve Proximity Test capabilities:</p> <p>Provide audio tone feed back indicating proximity to a nerve root</p> <p>Program automatically for changing stimulation intensity while searching for an EMG response</p> <p>Should support below mentioned screw Test capabilities</p> <p>Provide audio tone feedback to verify proper positioning of pedicle screws</p> <p>Should have program to avoid false test results</p> <p>should Support</p> <p>simultaneous 32 channle or more EP (MEP, SSEP, VEP, BAEP etc) EMG and EEG monitoring</p> <p>built in fast charge TCeMEP with double train stimulation</p> <p>2-channle Pulse O2 capability</p> <p>Automated pedicle screw testing</p> <p>Surgeon’s microscope view</p> <p>Simultaneous muftisite remote monitoring and review.</p> <p>General specification:</p> <p>Vendor should provide complete range of accessories and disposables for all monitoring modalities (SSEP, MEP, AEP, BAEP, VEP)</p> <p>A user list should be enclosed with manual.</p> <p>The system with all its applications should be FDA /CE/BIS approved.</p> <p>Vendors should provide technical application specialists for application support and should be based in Eastern Region.</p> <p>Vendor should quote prices of the entire system with all its application</p> <p>Vendor should quote prices for disposables for 50 surgeries indicating unit price of each item.</p> <p>Should quote unit price separately for disposables.</p> <p>Physical demonstration of the product with all its features and functions should be made available within one week of notice.</p> <p>Training of the medical, technical and paramedical personnel should be provided by the vendor.</p> <p>Service centre should be present in Assam or surrounding area.</p> <p>To quote five year warranty and five years additional CMC.</p> <p>Bidder should offer in a separate annexure the cost of provision of one trained manpower/technician on 24x7 basis for period of 5 years, to be stationed at JMCH, Jorhat by the bidder to be paid on monthly basis for the entire period.</p>	
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3	Operation Theatre Light with Camera	<ol style="list-style-type: none"> 1. Description of Function : <ul style="list-style-type: none"> • Surgical lights illuminate the surgical site for optimal visualization of small, low-contrast objects at varying depths in incisions and body cavities. 2. Operational Requirements : <ul style="list-style-type: none"> • The light should comprise of 2 units, one major dome and one satellite dome. Each unit should have a facility of brightness adjustment from 30 – 100 %. Should be shadow free. 3. Technical Specifications : <ul style="list-style-type: none"> • Light System ~ <ol style="list-style-type: none"> a. Should be LED based microprocessor controlled technology. b. One major dome and one satellite dome. c. Intensity at 1-meter distance 1, 50,000 to 1, 60,000 lux for major dome and 1, 10,000 to 1, 30,000 lux for satellite dome. d. Colour Temperature: 4500 -5000 K. e. Having on off switch and light intensity control. f. Homogenous luminous field with lowest possible amount of shadow. g. The contrast between the lighted area and the surrounding should not cause stress to the surgeon's eye. h. Depth of illumination should be 120-140 cms. or more. i. Illuminated field diameter should be approx. 20-30 cms. j. Increase in temperature near head should be specified and should not be more than 1 degree C. k. Color rendering index (CRI) should be 93 – 98. l. Height adjustment more than 1 meter. m. LED life span 40000 or more Hrs. n. Light field adjustment by sterilisable handle. o. Control panels on the light assembly as well as away from it for adjustment of light intensity, illuminated area and for switching on and off, focusing etc. p. The light head should be so constructed as to provide optimum conditions for laminar flow. q. It should have provision for using it during minimally invasive surgery \maintaining the correct vision of the screen. <ul style="list-style-type: none"> • Camera System ~ CCD Camera having following features : <ol style="list-style-type: none"> a. Resolution 450 lines or more. b. Motorized 36xzoom or more. c. Anti flicker and auto focus. d. Minimum lux 1.5. e. Focal length 4-120mm. f. Aperture F 1.6-4.5. 	Neurosurgery

		<p>g. Location of the camera in the center of the light head inside the handle for easy focusing.</p> <p>h. Foot switch control.</p> <p>i. Having output BNC –Composite-USB.</p> <p>j. Auto/manual white balance.</p> <ul style="list-style-type: none"> • LCD Monitor ~ <p>a. High resolution LCD monitor compatible with the camera system and the recording system.</p> <p>b. Size 19 - 26 inch or more diagonally.</p> <p>c. Mountable on 3rd arm or wall.</p> <p>d. 3rd arm to hold Monitor on a bracket which can be tilted independently on two separate axis.</p> <ul style="list-style-type: none"> • Recording System ~ <p>a. Multimedia Digital recording system for recording on hard disk and portable media with 17" LCD monitor.</p> <p>4. System Configuration Accessories, Spares and Consumables :</p> <ul style="list-style-type: none"> • System as specified. <p>5. Environmental Factors :</p> <ul style="list-style-type: none"> • The unit shall be capable of being stored continuously in ambient temperature of 0 -50 deg C and relative humidity of 15-90%. • The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90%. <p>6. Power Supply :</p> <ul style="list-style-type: none"> • Power input: 220-240V/ 50 Hz AC Single phase fitted with appropriate Indian plugs and sockets. • Electronic Voltage corrector/stabilizer of appropriate ratings meeting BIS Standards/Specifications. (Input 160-260 V and output 220-240 V and 50 Hz).and UPS <p>7. Standards & Safety :</p> <ul style="list-style-type: none"> • Should be FDA, CE, UL or BIS approved product. • Manufacturer should be ISO certified for quality standards. • Electrical safety conforms to standards for electrical safety IEC 60601-1 General Requirements (or equivalent BIS Standard). • Shall meet internationally recognized standard for Electro Magnetic Compatibility (EMC) for electro medical equipment: IEC-60601-1-2: latest edition Or Equivalent BIS) or should comply with 89/366/EEC; EMC directive as amended. • Certified to be compliant with IEC 60601-2-41: Particular requirements for the safety of Operation Theatre Light or equivalent if applicable. <p>8. Training :</p> <ul style="list-style-type: none"> • Comprehensive training for staff of user department and support services till familiarity with the system. <p>9. Warranty & Service :</p> <ul style="list-style-type: none"> • Comprehensive warranty for 5 years and 5 years Comprehensive Maintenance Service after warranty. The cost of CMC must be quoted in the price bid. • Percentage of uptime guarantee of the equipment during warranty and CMC period for which commitment is to be given must be specified with acceptance of applicable penalty clauses in case of failure to do so. • After sales service must be provided in the city of installation. In situations requiring service/repair of the unit outside the city of installation, the expenditure on account of this will have to be borne by the supplier. <p>10. Documentation :</p> <ul style="list-style-type: none"> • Product Literature in original along with that of accessories and indigenous components if any. Photocopies/computer generated copies are not acceptable. 	
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		<ul style="list-style-type: none"> • Statement of compliance with tender specifications with clear and unambiguous links to relevant portions of product literature/authentic document, which should be highlighted. Alternatives provided for noncompliant specifications with justification must be described in detail with supporting literature. • Certificate of compliance with standards and approvals stated above. • Certificate of manufacturer/principal regarding authorization of service facility provided by the supplier. • List of Equipment available in the Service Centre for providing calibration and routine Preventive Maintenance Support. as per manufacturer documentation in service/technical manual. • List of important spare parts and accessories, which are required for maintenance and repair, with their part number and costing. • Terms and conditions of warranty and CMC including schedules of visit by service personnel with check list of services to be carried out. • Commitment for supply of log book with check list for daily, weekly, monthly and quarterly preventive maintenance with contact details of service personnel along with the equipment. The job description of the hospital technician and company service engineer should be clearly spelt out in the log book. • List of users of quoted model with performance certificate from major institutions. 	
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4	High speed Drill System for Neuro-surgery & Spinal Surgery	<p>Tender Technical Specifications for High Speed Drill System for Neurosurgery & Spinal Surgery :</p> <ul style="list-style-type: none"> a. Electrically Controlled High Speed Drill System with colored display touches screen operation, two engine exits, with integrated irrigation pump. power supply : 100 – 120 / 230 – 240 VAC, 50 / 60 Hz consisting of : Main unit, Irrigation rod, Two-pedal Footswitch, Silicone Tubing Set, Clip Set Single use tubing set, sterile, 3 pieces Maintenance of the motor driven accessories (motors, handles, shaver hand pieces) should be supplied with universal Spray. b. Motor speed should be adjustable. c. Speed selection up to 100,000 rpm for select hand pieces. d. Motor should be in hand piece. e. Console should have a digital display of speed, direction of rotation, irrigation and switch. f. Built in Irrigation system with irrigation speed controlled by foot switch. g. Single Motor System with variety of hand pieces. h. Forward & Reverse Speed control via foot switch. i. The system must comprise of 1 Qty. of each of the following : Short straight hand piece. Extra long curved hand piece. Long straight hand piece. Short curved hand piece. Craniotomy handpiece with duraguard. Perforator handpiece without perforator instrument, Hudson-Connector for use. j. Accessories to be supplied with drill : 2 adult and 2 paediatric size perforators. 10 drill bits of different sizes to be supplied with drill machine. 10 craniotomy blades should be supplied. 4 saws to be supplied which fit in hand piece motor. 2 autoclavable cords to be supplied. Diamond burrs in sizes 2, 3, 4. Diamond course burr in size 3, 4. Craniotome burrs for medium dura protector. Highspeed hand-piece extra long malleable, slim, angled 60,000 rpm for use. Malleable Diamond burrs in all sizes to be used with extra slim angled handpiece. k. Should be FDA / CE approved. l. Five years warranty with spares and five years additional CMC to be 	Neurosurgery

		<p>quoted.</p> <p>m. Service center should be present in Assam or surrounding area.</p> <p>n. UPS, CVT to be supplied with drill machine.</p>	
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5	Pneumatic Drill Machine	<p>Tender Technical Specifications for Pneumatic Drill Machine :</p> <ol style="list-style-type: none"> Motor speed should be at least 100,000 rpm at 8 bar pressure. Motor should be light weight (preferably less than 70 gms). Main motor unit should be detachable from air supply hose. Straight and angles attachment of various lengths should be available for Cranial and Spinal Surgery. Change of hand piece with mounted tool should be possible. Motor should be converted to an angulated position with or without an adaptor. Sound level should be very low. No intra-operative oiling of motor should be necessary. Duraguard should be detachable from Craniotome hand piece, so that same hand piece can be used for Pediatrics, Adult and spine surgery. Quick coupling attachment should be available. Motor should have a safety stop. Single use and reusable burrs should be available. Sterilizations through Flash or Regular steam autoclave. Perforator driver with cutter should be available. Should be able to use the Saw hand piece with same system. Optional Irrigation pump should be available. Five years warranty followed by CMC quote for next five years. 	Neurosurgery
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Quote all accessories including following :

Slr. No. :	Description :	Quantity :
	(A) HAND PIECES :	
1.	Straight hand piece 120 mm	01
2.	Straight hand piece 90 mm	01
3.	Straight hand piece 160 mm	01
	(B) CRANIOTOMY ATTACHMENT :	
4.	Craniotome hand piece	01
5.	Fixed duraguard adult	01
6.	Fixed duraguard pediatric	01
	(C) CRANIOTOME CUTTER :	
7.	Craniotome cutter pediatric	20
8.	Craniotome cutter adult	60

Slr. No. :	Description :	Quantity :
	(D) PERFORATOR :	
9.	Perforator driver	01
10.	Cranial perforator, 9 X 12 mm, Hudson type	01
11.	Cranial perforator, 6/9 mm, Hudson type	01
12.	Hudson chuck	01

		13.	Spare cutter for Perforator, 9 X 12 mm			01	
		14.	Spare cutter for Perforator, 6 X 9 mm			03	
		(E) BURRS :					
		15.	Rosen burr D 3.1 mm for 120 mm hand piece			10	
		16.	Diamond burr D 3.1 mm for 120 mm hand piece			10	
		17.	Barrel burr D 4.0 mm for 160 mm hand piece			05	
		18.	Barrel burr D 4.0 mm for 120 mm hand piece			10	
		19.	Barrel burr D 4.0 for 160 mm hand piece			05	
		20.	Neuro cutter D 2.3 for 120 mm hand piece			05	
		21.	Neuro cutter D 3.1 for 120 mm hand piece			10	
		22.	Neuro cutter D 3.1 for 160 mm hand piece			10	
		23.	Acorn burr D 6.0 mm for 90 mm hand piece			10	
		24.	Pin point cutter D 1.5 for 120 mm hand piece			25	
		25.	Twist Drill D 1.5 mm for 90 mm hand piece			10	
		(F) MICRO SAGITAL SAW ATTACHMENT :					
		26.	Micro sagital saw pencil shape			01	
		27.	Saw Blade for micro sagital saw 9/13/0.3/0.3 mm			04	
		(G) STORAGE AND MAINTENANCE :					
		28.	Oily spray for high speed motor and hand pieces			10	
		29.	Oil spray for perforator			05	
		30.	Perforated basket with covering lid with holders for motors, all hand pieces, hose, tools and all other accessories			01	
		Should be FDA, CE, UL or BIS approved product.					

6	C-Arm Image Intensifier TV System of Neurosurgery	<div> <div>1 Description of Function</div> <div> <div>1.1 Image Intensifier for Dynamic X-Ray based studies.</div> </div> </div> <div> <div>2 Operational Requirements</div> <div> <div>2.1 A mobile unit dedicated for Neurosurgical procedures is required</div> </div> </div> <div> <div>3 Technical Specifications</div> <div> <div>3.1 GENERATOR: Self-contained, Monoblock / HF Generator with very high frequency of 40 kHz. Or more Apart from manual, automatic fluoroscopy, pulsed fluoroscopy and Boosted / Snap shot fluoroscopy facility should be there with choice of different time intervals between the pulses in pulsed fluoroscopy. Rotating anode x-ray tube with high thermal capacity.</div> <div>3.2 I.I.T.V. SYSTEM: LATEST HIGH RESOLUTION I.I.T.V SYSTEM Field size : 9" (Triple Field) atleast Monitor: Two 19" High definition monitors, 100 Hz System, Flicker Free with facility for continuous image (clock-wise) and image inversion (up/ down and left-right) mounted on mobile with castors and locks. Automatic dose rate control facility.</div> <div>3.3 MEMORY: DIGITAL IMAGE PROCESSOR (should have the following functions) Acquisition Rate Setting Range: User Selectable Memory Hard Disk : 300000 images or more Memory RAM : (120 Frames) or higher Functions: i) Road Mapping ii) Digital Subtraction iii) Contrast Enhancement iv) Noise Reduction with recursive filter</div> </div> </div>	Neurosurgeon

			<p>Post Processing Features: i) Digital Subtraction ii) Grey Scale Inversion iii) Patient Data Text Annotation</p>		
		3.4	<p>C-ARM MOVEMENTS:</p> <p>The unit should have steerable wheels with locks. Motorised vertical movement : At least 500 mm or more Horizontal Movement : At least 175 mm or more Orbital: At least 125 degrees Swing: At least +10 degrees Free space between X-ray tube & I.I. : At least 700 mm or more Depth of C-Arm : At least 650 mm or more Source to Image Distance : At least 900 mm or more</p>		
		3.5	Motorised Remote Collimator IRIS TYPE and Parallel Shutters type. The Parallel shutter should be possible to Rotate Clockwise/ Anti Clockwise.		
		3.6	Footswitch with functional switches for Fluoroscopy,Pulsed Fluoroscopy and Snap Shot Fluoroscopy.		
		4 System Configuration Accessories, spares and consumables			
		4.1	System as specified		
		4.2	<p>Accessories: 1.Lead Aprons 06 2.Thyroid Guards 06 3.PC with TFT Monitor with table and laser printer 01. 5.View Boxes – 02 6.TFT Monitor 02 7.C-Arm compatible table-Radioluscent</p>		
		5 Environmental factors			
		5.1	Shall meet IEC-60601-1-2 :2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.or should comply with 89/366/EEC; EMC-directive.		
		5.2	The unit shall be capable of being stored continuously in ambient temperature of 0 -50 deg C and relative humidity of 15-90%		
		5.3	The unit shall be capable of operating continuously in ambient temperature of 10 -40 deg C and relative humidity of 15-90%		
		6 Power Supply			
		6.1	Power input to be 220-240VAC, 50Hz fitted with Indian plug		
		6.2	Resettable overcurrent breaker shall be fitted for protection		

6.3	UPS of suitable rating with voltage regulation, spike protection and maintenance free batteries for 60 minutes back up		
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7 Standards, Safety and Training

7.1	Should be FDA , CE, UL or BIS approved product		
7.2	Manufacturer should be ISO certified for quality standards.		
7.3	Electrical safety conforms to standards for electrical safety IEC 60601-1 General Requirements (OR EQUIVALENT international/national standard)		
7.4	Should comply with AERB Guidelines for radiation leakage.		

8 Documentation

8.1	User/Technical/Maintenance manuals to be supplied in English.		
8.2	Certificate of calibration and inspection.		
8.3	List of important spare parts and accessories with their part number and costing.		
8.4	Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.		
8.5	Performance report in the last 5 years from major hospitals should be enclosed.		

N: B: Should be able to archived images in Cd-R/ usb/ pen drive in dicom format. Digital angiography 145/30frame/ good resolution it should be compatible with navigation.

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7	Endoscope system of Neurosurgery	<p>1. Description of Function :</p> <p>1.1 Neuroendoscope is a small device that allows the identification of the anatomy of the brain's ventricular system. It aids the neurosurgeon in placing the shunt.</p> <p>2. Operational Requirements :</p> <p>2.1 Neuro-endoscope should be lightweight and dedicated to Neurosurgery cranial work.</p> <p>3. Technical Specifications :</p> <p>3.1 Connecting piece for fixation for operating sheath to endoscope holder- 1 no.</p> <p>3.2 Wide angled forward oblique telescope 6 deg., enlarged view, with 3 channels, autoclavable fiberoptic light transmission incorporated, preferably color-coded.</p> <p>3.3 Operating sheath preferably with valve, Outer Dia. Less than 7 mm with graduated scale with lateral stopcock and inlet for catheter, with obturator - 1no.</p> <p>3.4 Sheath insert for use of 30 deg., 70 deg. diagnostic telescope through operating sheath - 1 no.</p> <p>3.5 Scissors, single action jaws, pointed diameter 2-2.5 mm length 30cm - 1 no.</p> <p>3.6 Biopsy forceps - 1 no.</p> <p>3.7 Grasping forceps with teeth fine size- 1 no.</p> <p>3.8 Biopsy punch forceps single action jaws fine size working length 28cm - 1 no. Instruments should preferably be rotating type</p> <p>3.9 Puncture needle- 1 no.</p> <p>3.10 Irrigation tube autoclavable with luer lock connection- 1 no.</p> <p>3.11 Coagulating electrode, bipolar 5 fr - 1 no.</p> <p>3.12 Bipolar cord - 4 no.</p> <p>3.13 Straight forward telescope 0 deg., enlarged view, autoclavable, with angled eyepiece, with instrument channel dia.3mm fiberoptic light transmission incorporated, preferably color coded. Neuro-Fiberscope, 0°, Working length: 34 cm Outer Diameter: less than 4 mm. Biopsy Forceps, flexible, 1 mm, Grasping Forceps, double action jaws, flexible, 1.0 mm, length 60 cm, Coagulating Electrode, unipolar, flexible, 1.0 mm, length 73 cm, Clamping Jaw, for use with all Fiberscopes, with fastener.</p>	Neurosurgeon

		<p>3.14 Universal table holder, multi-articulated should have three or more joints with 360 deg. of freedom with holding device.</p> <p>3.15 High Definition camera with integrated image processing module, max resolution 1920X1080, with integrated ICM (Image Capture Module), color system: Pal, power supply: 100-240 VAC, 50/60 Hz, including: 3 chip camera head with integrated par focal zoom lens, Camera control unit with integrated image processing module, connecting cable length 180 cm, connecting cable set length 180cm, Keyboard, 2 connecting cables, for connecting video-printers or recorders- 1 no.</p> <p>3.16 Xenon light source 300watt with color temperature 6000 K light intensity manually controlled - 2 nos.</p> <p>3.17 Fiberoptic light cable, dia. 3.5 mm length 230cm- 2 nos.</p> <p>3.18 Main cord for color monitor compatible HDTV 24" Flat Screen TFT Monitor with coor system PAL/NTSC. Resolution max 1920 x 1200, SDI, Composite, S-Video, RGB, DVI and VGA Inputs.</p> <p>3.19 Instrumentation Set For Endoscopic Third Ventriculostomy (Treatment For Hydrocephalus Patients To Avoid Usage of Shunts), Colloid Cyst, Marsuplisation Of Archnoid Cyst And Multiple Biopsy From Ventricular Tumors And Cystic Fenestration with complete set of accessories.</p> <p>3.20 Spine Set for Recording and Magnification of the operating area, Consisting of: Holding arm with universal tube holder to hold the telescope used for recording and magnification. Rod lens Straight forward optic 0 degree for use from a working diatance 20cm, dialemter 10mm, length 10 cm, autoclavable, fiber optic light transmission incorporated. Fiber optic light cable with 90 degree deflection to the instrument. Distance measuring rod, length 20cm, Tray for telescope and Clamping cylinder</p> <p>3.21 Instruments for performing Endoscopic management of csf rhinorea, optic nerve decompression, pituitary macro and micro adenomas, transclival cordomas and for extended approaches for all lesions from ciste gliae to cvj junction using Transclival, transplanum, transcribriform and transsphenoidal approach with complete set.</p> <p>3.22 Sterilization tray with silicon cushion pads along with the basic video cart, rides on 4 antistatic dual wheels with locking brakes, 3 fixed shelves, main switch integrated cable conduit in the video cart, Drawer unit with lock, 3 horizontal cable conduits, one with cable winding, two with 4-times Electrical sub-distributer, 1 set of non- sliding stands for units, 1 TFT – Monitor arm for mounting on vertical beam.</p> <p>3.23 Diagnostic (observation) telescope for assisted surgery 0 deg., 30deg. And 70 deg. The endoscope should be topline only.</p> <p>3.24 Instrumentation set for percutaneous lumbar interlaminar and</p>	
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		<p>transforaminal endoscopic surgery without G.A.(general anaesthesia)</p> <p>4. System Configuration, Accessories, Spares and Consumables</p> <p>4.1 System as specified.</p> <p>5. Environmental Factors :</p> <p>5.1 The unit shall be capable of being stored continuously in ambient temperature of 0 – 50 deg C and relative humidity of 15 – 90%.</p> <p>5.2 The unit shall be capable of operating in ambient temperature of 20 – 30 deg C and relative humidity of less than 70%.</p> <p>6. Power Supply :</p> <p>6.1 Power input to be 220-240VAC, 50Hz fitted with Indian plug.</p> <p>6.2 Resettable overcurrent breaker shall be fitted for protection.</p> <p>6.3 Voltage corrector /stabilizer of appropriate ratings meeting ISI Specifications. (Input 160-260 V and output 220-240 V and 50 Hz).</p> <p>6.4 Suitable UPS with maintenance free batteries for minimum one-hour back-up should be supplied with the system.</p> <p>7. Standards, Safety and Training :</p> <p>7.1 Manufactures/Supplier should have ISO certificate to Quality Standard.</p> <p>7.2 Should be compliant with IEC 61010-1:(or any international equivalent eg EN/UL 61010) covering safety requirements for electrical equipment for measurement control and laboratory use.</p> <p>7.3 Should be FDA, CE, UL or BIS approved product.</p> <p>7.4 Comprehensive training for lab staff and support services till familiarity with the system.</p> <p>7.5 Comprehensive warranty for 5 years and additional 5 years AMC.</p> <p>8. Documentation :</p> <p>8.1 User/Technical/Maintenance manuals to be supplied in English.</p> <p>8.2 Certificate of calibration and inspection.</p> <p>8.3 List of Equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual.</p> <p>8.4 List of important spares and accessories with their part number and costing.</p> <p>8.5 Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.</p> <p>8.6 Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page / para number of original catalogue / data sheet. Any point, if not substantiated with authenticated catalogue / manual, will not be considered..,</p>	
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8	Head light of Neurosurgery	<p>Description of Function :</p> <p>1.1 Surgical headlight illuminates the surgical field and is fitted on the head thus permitting hands free for operation and a clear near end vision is possible.</p> <p>2. Operational Requirements :</p> <p>2.1 State of the art system is required.</p> <p>3. Technical Specifications :</p> <p>3.1 Head Light with Case</p> <ul style="list-style-type: none"> — Should be comfortable and mobile LED Head Light and easy to use without any cables. — Should have Luminous intensity: max. 200,000 lux.. — Should have Color Temperature of 5000K. <p>3.2 Light Source</p> <ul style="list-style-type: none"> — Should have minimum battery service life of 6 hours. — Batteries should be capable of being charged easily without powering off. — Should have integrated battery status indicators. — Approx weight less than 350 gm. — Should be provided with 3 magnifying lenses (2dpt, 3dpt and 4dpt). — Focus should be down to 65mm. <p>3.3 Fiber Optic Bundle</p> <ul style="list-style-type: none"> — Should be comfortable through a removable, washable headband. — Should be CE, US, FDA or BIS approved and of international safety standards. <p>3.4 Carrying Case</p> <ul style="list-style-type: none"> — Should be supplied with a compact case. <p>4. System Configuration, Accessories, Spares and Consumables</p> <p>4.1 System as specified.</p> <p>5. Environmental Factors :</p> <p>5.1 The unit shall be capable of being stored continuously in ambient temperature of 0 – 50 deg C and relative humidity of 15 – 90 %.</p> <p>5.2 The unit shall be capable of operating continuously in ambient temperature of 10 -40 deg C and relative humidity of 15-90%.</p>	Neurosurgeon

		<p>6. Power Supply :</p> <p>6.1 Power input to be 220-240VAC, 50Hz fitted with Indian plug with UPS</p> <p>7. Standards, Safety and Training :</p> <p>7.1 Should be FDA, CE, UL or BIS approved product.</p> <p>7.2 Manufacturer should be ISO certified for quality standards.</p> <p>7.3 Should have local service facility .The service provider should have the necessary equipments recommended by the manufacturer to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual.</p> <p>7.4 Comprehensive warranty for 5 years and 5 years AMC after warranty.</p> <p>8. Documentation :</p> <p>8.1 User / Technical / Maintenance manuals to be supplied in English.</p> <p>8.2 Certificate of calibration and inspection.</p> <p>8.3 List of important spares and accessories with their part number and costing.</p> <p>8.4 Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.</p>	
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9	MR Compatible Stereo Tactic Frame	<p>Specification for MR compatible stereotactic frame:</p> <p>Stereotactic head frame with localization accessories:</p> <ol style="list-style-type: none"> 1. Coordinate stereotactic frame. 2. Stereotactic arc with clamp. 3. CT and MR adapter with table fixation device. 4. Backward biopsy kit including accessories for fine needle biopsy, spiral biopsy and aspiration kit. 5. Side cutting biopsy needle kit. 6. Haematoma evacuator kit. 7. Endoscopic adaptor. 8. Neurogenerator. 9. Brain lesion electrodes & bipolar kit. 10. Electrodes for pain treatment. 11. Should be compatible with existing CT and MRI at JMCH. <p>N:B : Should be CE, US, FDA or BIS approved product.</p>	Neurosurgery

10	Operating Table for Neurosurgery with standard neuro attachment	<p>1. Description of Function :</p> <p>1.1 A dedicated system for Neurosurgery ;</p> <p>2. Operational Requirements :</p> <p>2.1 The table should be mobile, electrically controlled with battery powered hydraulic drive, Table top should be divided into segments, topped with special foam mattress (SFC) which should be both radio translucent and electrically conductive. The table should rest on easy-rolling castors and should be fitted with brakes.</p> <p>2.2 Should be able to take intraop X-Rays of skull and spine with C-Arm or O - Arm</p> <p>3. Technical Specifications :</p> <p>3.1 Should have a stable base. Should be supplied with control panels including remote, column and foot switch.</p> <p>3.2 The maximum permissible patient weight should be around 250 Kgs.</p> <p>3.3 Should be electro-hydraulic with facility for various positions such as sitting, supine, prone and lateral positions under the microscope. The table pad should be double layered and not soft but can be molded by the figure of the patient to deliver even counterforce and it should be water-proof and anti-static material and can be washed by water directly; each joint should be sealed by ultrasonic not glue and sewing. The thick of the mattress should be more than 75mm.</p> <p>3.4 Should have a Trendelenburg / Reverse Trendelenburg: 45/20 Deg.</p> <p>3.5 Should have a Height up/down (without padding) : 480 – 1000 mm, Lateral Tilt (Left/Right): 30 Deg, Back Section (Up/Down): 90/30 deg, Leg Section (Up/Down): 90/90 Deg.</p> <p>3.6 Should have a head holder for various positions. The head holder should be attached to the main unit. It should be interchangeable for the leg plates and head rest for normal position and reverse position.</p> <p>3.7 Should have a table top which can rotate towards the right and left by 20-30 deg each.</p> <p>3.8 Should have headboard break 100, up, 850 down with manual and electrohydraulic operation.</p> <p>3.9 Movement should be possible by simply pressing the appropriate buttons on the Remote Control.</p> <p>3.10 Should necessarily be possible to shorten the table top in stages by</p>	Neurosurgeon

		<p>back extension to 1300 mm, and a further 265 mm when the leg plate is lowered, for operating on infants to adolescents.</p> <p>3.11 Should have radiolucent table plate for free c-arm access.</p> <p>4. System Configuration, Accessories, Spares and Consumables</p> <p>4.1 System as specified.</p> <p>4.2 Standard Accessories.</p> <p>4.3 Accessories for Neurosurgery :</p> <ul style="list-style-type: none"> • Mayfield skull clamp with necessary adapters. • Attachment frame for positioning the patient in sitting position. • Arm Board • Wristlet • Body straps • Anaesthesia screen • Infusion bottle holders • Radial setting clamp • Horse shoe with connecting fixtures (adults) • Horseshoe with connecting fixtures (pediatrics.) • Horseshoe with pulley for traction • Wrist support. • Accessories for prone and knee-chest position. • C arm compatible and radiolucense horse shoe with connecting features with pullies for traction in <p>5. Environmental Factors :</p> <p>5.1 Shall meet IEC-60601-1-2:2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility or should comply with 89/366/EEC; EMC-directive.</p> <p>5.2 The unit shall be capable of operating continuously in ambient temperature of 10-40deg C and relative humidity of 15-90%.</p> <p>6. Power Supply :</p> <p>6.1 Power input to be 220-240VAC, 50Hz fitted with Indian plug with UPS.</p> <p>7. Standards, Safety and Training :</p> <p>7.1 Should have current leakage less than 70 U/A AC (0.07m Amp).</p> <p>7.2 Manufacturer/Supplier should have ISO certification for quality standards.</p> <p>7.3 Should be CE, US, FDA or BIS approved product.</p> <p>7.4 Comprehensive training for lab staff and support services till familiarity with the system.</p> <p>7.5 Comprehensive warranty for 5 years and additional 5 years AMC.</p>	
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		<p>8. Documentation :</p> <p>8.1 User manual in English.</p> <p>8.2 Service manual in English.</p> <p>8.3 Certificate of calibration and inspection.</p> <p>8.4 List of important spares and accessories with their part number and costing.</p> <p>8.5 Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.</p> <p>8.6 Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page / para number of original catalogue / data sheet. Any point, if not substantiated with authenticated catalogue/ manual, will not be considered.</p>	
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11	Radiolucent Spinal Attachment :	<p>Radiolucent Spinal attachment for use with O.T table as Jackson Table. The attachment must have the following specifications and features</p> <ul style="list-style-type: none"> a) Adjustable wings to fit wide variety of patients and to obtain decompressed abdomen and postural for various kinds of surgical intervention in prone and lateral positions. b) The attachment must have height adjustable from Head end to achieve multiple positions such as flexion, extension. c) The attachment should not have any member near the floor between the table and Head end to provide unlimited and free access for C arm. d) The complete attachment should be easily portable and attached to any table and move from one OT to other. e) The patient positing should be possible in prone (face down) & in skull clamp (May Field or DORO) Radiolucent attachment. These skull clamp adjustment should be easily possible in versatile manner as under: f) Lateral : 6 inch (150mm). g) Height : 28 inch (710 mm). h) Extension : 9 inch (230 mm). i) Lateral tilt +/- (15 degree). j) The supply must include one complete Radiolucent Head Clamp system which should be compatible with Spinal attachment. <p>The supplies must include the following :</p> <ul style="list-style-type: none"> k) Spinal table top radiolucent with 3 inch mattress / foam pad. l) Arm supports (one pair) for patient in supine position as well as in lateral position. m) Lateral supports (one pair) and security straps (2 pcs) for patient in lateral position. n) The Spinal attachment should be compatible with OT table of any make. o) Should be FDA, CE, UL or BIS approved product. 	Neurosurgey

12	Operating Chair for Surgeon and Assistant	<ul style="list-style-type: none"> • Multi-position arm supports. • Electric height level adjustment – range of 150 or 200 mm. • Back wheels lock simultaneously. • Foot height control. • Adjustable contoured backrest • Simple adjustment of the seat and back support. • Ergonomic seat form: Teardrop / wedge seat / Saddle seat • Hand height control. • Easily moved with personnel handle. • Position able foot support. • Multi-position armrest • Should be FDA, CE, UL or BIS approved product. 	Neurosurgey

13	Ultrasonic Aspirator for Micro Neurosurgery	<p>1. Description of Function :</p> <p>1.1 Ultrasonic aspirators use mechanical ultrasonic vibration and an irrigation/suction system to fragment and remove soft tissue and high-water-content growths from various parts of the body.</p> <p>2. Operational Requirements :</p> <p>2.1 The system should provide selective tissue ultrasonic fragmentation including bone with simultaneous irrigation & aspiration.</p> <p>2.2 The system should be quoted with 25 kHz and 35 KHz universal hand piece for soft tissue and bone dissection having various compatible tips from soft tissue to bone to transsphenoidal length.</p> <p>3. Technical Specifications :</p> <p>3.1 Surgical aspirator should be based on magneto-restriction or piezoelectric technology.</p> <p>3.2 The system must be compact with built-in suction facility.</p> <p>3.3 The hand piece must be cooled if required to prevent overheating by flow of water.</p> <p>3.4 The hand pieces should be dismountable & autoclavable.</p> <p>3.5 The vacuum pump should provide suction of > 550 mm of Hg.</p> <p>3.6 It should have safety features like optical signal for failed hand pieces and signal for failed unit.</p> <p>3.7 The console should have control for power, irrigation and aspiration with clearly visible large digital display.</p> <p>3.8 The footswitch should have a linear operation for irrigation and operation of the hand piece.</p> <p>3.9 It should preferably have 1.5 to 2.5 liter capacity container of unbreakable material with level sensor and anti-overflow system.</p> <p>3.10 The hand piece should be available in the following sizes :-</p> <ol style="list-style-type: none"> 1. Standard Size Hand Pieces- Angled & Straight (1 each). 2. Micro tipped- Angled hand piece. (1 each). 3. Long- Angled hand piece.(1 each). <p>3.11 The irrigation pump should be inbuilt in the unit, the irrigation output 0-150ml/min.</p> <p>3.12 Should be able to remove bone and tough tissue.</p> <p>4. System Configuration, Accessories, Spares and Consumables</p>	Neurosurgey

	<p>4.1 Accessories :</p> <ol style="list-style-type: none"> 1. Trolley. 2. Assembly kit for aspirator – 1. 3. Infusion bottle holder – 1. 4. Double foot switch – 1. 5. Cleaning brush for instrument lumen – 2. 6. Instrument connection cables – 2. 7. Suction / irrigation tubing (5 meter each), silicon twin tube – 20. 8. Autoclavable compatible instrument tray. 9. Protective cover – 4 pieces. <p>5. Environmental Factors :</p> <p>5.1 The unit shall be capable of being stored continuously in ambient temperature of 0-50 deg C and relative humidity of 15-90%.</p> <p>5.2 The unit shall be capable of operating in ambient temperature of 20-30 deg C and relative humidity of less than 70%.</p> <p>5.3 Shall meet IEC-60601-1-2:2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility or should comply with 89/366/EEC; EMC-directive.</p> <p>6. Power Supply :</p> <p>6.1 Power input to be 220-240 VAC, 50 Hz fitted with Indian plug.</p> <p>6.2 Resettable overcurrent breaker shall be fitted for protection.</p> <p>6.3 Voltage corrector / stabilizer of appropriate ratings meeting ISI Specifications. (Input 160-260 V and output 220-240 V and 50 Hz).</p> <p>6.4 Suitable UPS with maintenance free batteries for minimum one-hour back-up should be supplied with the system.</p> <p>7. Standards, Safety and Training :</p> <p>7.1 Manufactures / Supplier should have ISO Certificate to Quality Standard.</p> <p>7.2 Should be compliant with IEC 61010-1:(or any international equivalent eg EN / UL 61010) covering safety requirements for electrical equipment for measurement control and laboratory use.</p> <p>7.3 Should be FDA, CE , UL & BIS approved product.</p> <p>7.4 Comprehensive training for lab staff and support services till familiarity with the system.</p> <p>7.5 Comprehensive warranty for 5 years and 5 years CMC after warranty.</p> <p>7.6 Company should be able to supply spares for 10 years after purchase.</p> <p>7.7 Service centre should be present in Assam or near by areas.</p> <p>8. Documentation :</p> <p>8.1 User / Technical / Maintenance manuals to be supplied in English.</p>	
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		<p>8.2 Certificate of calibration and inspection.</p> <p>8.3 List of Equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual.</p> <p>8.4 List of important spares and accessories with their part number and costing.</p> <p>8.5 Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.</p> <p>8.6 Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page / para number of original catalogue / data sheet.</p>	
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14	Transcranial Doppler system	<p>Description of Function :</p> <p>1.1 Tran cranial Doppler (TCD) is used to conduct a test that measures the velocity of blood flow through the brain's blood vessels. Used to help in the diagnosis of emboli, stenosis, vasospasm from a subarachnoid hemorrhage (bleeding from a ruptured aneurysm), and other problems, this is relatively quick and inexpensive test.</p> <p>2. Operational Requirements :</p> <p>2.1 System complete with all accessories are required along with a trolley and printer.</p> <p>3. Technical Specifications :</p> <p>3.1 The system should preferably be digital with M-Mode display.</p> <p>3.2 The System should have at least :</p> <ul style="list-style-type: none"> i) 2 independent channels capable of any frequencies between 1 - 16/20 MHz ii) 2 Probes simultaneous functioning. iii) Electronically switching from PW/CW for 4 and 8 MHz Probes. iv) Spectra and audio recording facility. v) Remote to control all vital functions. vi) User configurable protocol for test sequences. <p>3.3 Software should offer at least the following :</p> <ul style="list-style-type: none"> i) 2 Channel Micro Emboli Detection Program. ii) M- mode display in Color Spectrum iii) On line display of various parameters including Depth, Mean, SV, PI, RI, Power, etc. iv) Should have database with provisions of data sort facility v) Should have provision to insert new data in the same patient database. vi) Report Generation facility. vii) Bi-lateral monitoring software with probe fixation on lightweight headband. viii) 4/8 view of spectra during monitoring. <p>3.4 System to include the following TCD Probes and accessories:</p> <ul style="list-style-type: none"> i) 2 MHz TCD Probes suitable for monitoring (2Nos.) ii) 2 MHz Hand-Held probe for diagnostic use. (1No.) 	Neurosurgeon

		<p>iii) 4 PW/CW probe(1 NO)</p> <p>iv) Light Weight Head Band for two monitoring probes.</p> <p>v) Stereo Head Phones (1No)</p> <p>vi) Conductive Gel. (24 Tubes of 200/250 ml)</p> <p>3.5 System should be supplied with a PC with minimum</p> <p>i) Intel V or higher, 4GB RAM, 1 TB or better HDD,</p> <p>ii) 17" or higher with high resolution LED TFT active matrix color display,</p> <p>iii) Windows Operating System</p> <p>iv) Network compatible.</p> <p>v) CD/DVD Writer Drive.</p> <p>3.6 The system must be supplied on a sturdy trolley, color Laser printer and UPS.</p> <p>4. System Configuration, Accessories, Spares and Consumables</p> <p>4.1 System as specified.</p> <p>5. Environmental Factors :</p> <p>5.1 The unit shall be capable of being stored continuously in ambient temperature of 0-50deg C and relative humidity of 15 – 90 %.</p> <p>5.2 The unit shall be capable of operating in ambient temperature of 20-30 deg C and relative humidity of less than 70%.</p> <p>5.3 Shall meet IEC-60601-1-2:2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility or should comply with 89/366/EEC; EMC-directive.</p> <p>6. Power Supply :</p> <p>6.1 Power input to be 220-240VAC, 50Hz fitted with Indian plug.</p> <p>6.2 Resettable over current breaker shall be fitted for protection.</p> <p>6.3 Voltage corrector/stabilizer of appropriate ratings meeting ISI Specifications.(Input 160-260 V and Output 220-240 V and 50 Hz).</p> <p>6.4 Suitable UPS with maintenance free batteries for minimum one-hour back-up should be supplied with the system.</p> <p>7. Standards, Safety and Training :</p> <p>7.1 Manufactures/Supplier should have ISO certificate to Quality Standard.</p> <p>7.2 Should be FDA, CE, UL or BIS approved product.</p> <p>7.3 Comprehensive training for lab staff and support services till familiarity with the system.</p> <p>7.4 Electrical safety conforms to standards for electrical safety IEC 60601-1 General Requirements (or equivalent international/national standard).</p> <p>7.5 Comprehensive Warranty for 5 years and 5 years CMC after warranty.</p>	
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		<p>8. Documentation :</p> <p>8.1 User / Technical / Maintenance manuals to be supplied in English.</p> <p>8.2 Certificate of calibration and inspection.</p> <p>8.3 List of important spares and accessories with their part number and costing.</p> <p>8.4 Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.</p> <p>8.5 Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page / para number of original catalogue / data sheet. Any point, if not substantiated with authenticated catalogue / manual, will not be considered.</p> <p>8.6 List of Equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service/ technical manual.</p>	
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15	Image Guided Neuronavigation system	<ol style="list-style-type: none"> 1. The System should be easy to set up, user friendly, intuitive and should work under Windows operating system environment. 2. Space saving high performance Image-Guided Surgery platform 3. The navigation system should have point as well as surface registration with accuracy prediction system. 4. The navigation system must have dynamic referencing so that registration is not lost even if camera or the patient moves. 5. Should have facility for marker less registration. 6. Should have user friendly application software. 7. The system should have facility of keeping optical camera and viewing system together or separately to allow optical use of O.T space. The system should have two monitors, one for the surgeon and the other for the OT/Technical staff or navigational screen can be easily viewed from ceiling/ wall mounted LCD monitors. 8. The surgeon Monitor should be high resolution (at least 1920 x 1200, 60 Hz) with a viewable size of at least 24” widescreen. 9. It should have hybrid tracking system with active and passive instrument. 10. It should have universal instrument adapter tracking system with active & passive option. 11. The system should have image guided spinal instruments like short drill guide, Awl, Probe and Tap system with straight or T-handles option. 12. The system should include a frameless biopsy system with needles. 13. The system should interface with all major microscope systems available at JMCH 14. The Microscope interface should be such that the navigation system can track microscope’s focal point & trajectory plan. 15. The Microscope interface should give heads up display. 16. The navigation system should have hardware & software for stereotactic surgery including functional stereotactic procedures. The software should reorient the scan images along the AC-PC plane. The stereotactic system should be adaptable to major frames like Leksell and CRW. 17. Navigation system should have a Grid & Deformable Atlas for better 	Neurosurgeon

		<p>navigation.</p> <p>18. Two way wireless communication between the camera and the instruments</p> <p>19. Large field of view of camera.</p> <p>20. In-house developed navigation camera for compatibility with future upgrades of machine/technology</p> <p>21. The system should have 3D graphics capability and software to merge CT & MRI images of machine present at JMCH.</p> <p>22. Look ahead view capability to show the images at 1mm to 20mm (increments of 1mm) in front of the probe.</p> <p>23. System should have advanced auto segmentation capabilities & should be able to perform following segmentation:-</p> <p style="padding-left: 40px;">Brain,</p> <p style="padding-left: 40px;">Tumor,</p> <p style="padding-left: 40px;">Vasculature,</p> <p style="padding-left: 40px;">Skull, Skin,</p> <p style="padding-left: 40px;">Ventricles</p> <p style="padding-left: 40px;">Custom</p> <p>24. All applications should have US, FDA, CE or BIS approval.</p> <p>25. The bidder shall provide all updates, software and hardware support for the systems and accessories during the warranty and CMC period.</p> <p>26. System should have facility of virtual fluoroscopic navigation for spinal applications compatible with 9" C-arm.</p> <p>27. The spine application should be a unified spine application which should comprise of 3D spine (Spine Navigation with Spine CT Data) and virtual fluoroscopy navigation for spine.</p> <p>28. The application should be able to memorize multiple surgeon preferences for each procedure.</p> <p>29. There should be a wireless control from the sterile field in form of surgeon mouse.</p> <p>30. It should be able to do a customized setup and automated functional check. It should have universal instrument adaptor tracking system with active and passive option.</p> <p>31. System should have facility of virtual fluoroscopic navigation for spinal applications compatible with C-Arm available at JMCH, Jorhat.</p> <p>32. System should have the capability to be integrated with 2D C-Arm of various manufactures and should provide complete list of compatible 2D C-arm's of various vendors and various dimensions (9" / 12").</p> <p>33. The System should have Navigation instruments for Minimal invasive Spine Procedures.</p> <p>34. 5 Years Warranty with spares and further 5 Years CMC with spares. Should have s service centre in the Eastern Region of India.</p>	
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		<p>35. Undertaking to stock an inventory of all spares for 10 years.</p> <p>N: B: Navigation software application are supported as well as integration with Endoscope, , Fluoroscopes and microscope. Should be compatible existing CT and MRI of JMCH</p>	
16	Operating Microscope for Neurosurgery	<p>1. Description of Functions :</p> <p>1.1 Surgeon: Use operating microscopes to magnify minute structures (e.g. nerves, blood and lymphatic vessels, lesions) in the operating field.</p> <p>2. Operational Requirements :</p> <p>2.1 Operating microscopes should be equipped with features that enable the surgeon to concentrate on the surgery rather than on the manipulation of the microscope, such as powered focusing and zoom magnification capabilities as well as eyepiece tubes that permit the surgeon to see the field from a vertical perspective while keeping the head erect.</p> <p>3. Technical Specification :</p> <p>3.1 (1) Motorized zoom magnification 6:1 ratio</p> <p>(2) Magnification from 1.8 x to 24.0 x.</p> <p>(3) Variable working distance from 207 mm (+/-25 mm) to 510 mm (+/-25 mm) through motorized multi focal lens.</p> <p>(4) Pair of wide field eye piece for spectacle wearers 10x/12.5X, dioptric setting + 5D to – 8D</p> <p>(5) Ergonomic handles with buttons for motorized control of focus, zoom, axis movement video control & still photography with programmable keys.</p> <p>(6) Facility for adjusting speed of the focusing motor to accept for different magnifications.</p> <p>(7) 300W xenon illumination with 300W Xenon back up through fiber optic cable.</p> <p>(8) Inclinable binocular tube, inclinable over range of minimum 0-360 deg.</p> <p>(9) Facility for spot illumination and multivision.</p> <p>(10) Floor stand with electromagnetic breaks with freedom of movement in all axes with contrives stand.</p> <p>(11) System should be compatible for neuronavigation.</p> <p>(12) Complete auto balance by push at one button, Intraoperative auto balance.</p>	Neurosurgeon

		(13) Should have interface for integrated heads up display for monocular image Injection from endoscope & MR/CT (PIP). Integrated HD recorder can be operated via touch screen/the foot clamp./or the hand grip of the surgical microscope . Flexible foldable table of 170/26 wireless foot control panel.	
		(14) Intraoperative diagnostic ICG.	
	3.2	(1) Stereoscopic co-observation attachment for second observer with tiltable. Eyepieces, minimum 0-180 Deg.	
		(2) Integrated Dual Beam Splitter.	
		(3) Integrated high definition camera with c-mount for connecting with the microscope.	
		(4) Integrated digital video recording facility with appropriate video editing software.	
		(5) Diploscope (face to face attachment).	
		(6) Full multifunction footswitch.	
		(7) Digital still camera for attachment with microscope.	
		4. System Configuration, Accessories, Spares and Consumables	
	4.1	System as specified.	
	4.2	Spare xenon lamp 300 W (2 Nos.)	
		5. Environmental Factors :	
	5.1	The unit shall be capable of being stored continuously in ambient temperature of 0-05 deg C and relative humidity of 15 – 90% .	
	5.2	The unit shall be capable of operating in ambient temperature of 20-30 deg and relative humidity of less than 70%.	
		6. Power Supply :	
	6.1	Power input to be 220-240 VAC 50 Hz fitted with Indian plug.(230v) or 115v : 100v – 125 v	
	6.2	Resettable overcurrent breaker shall be fitted for protection.	
	6.3	Voltage connector / stabilizer of appropriate ratings meeting ISI Specifications. (Input 160-260 V and output 220-240 V and 50 Hz- 60 Hz	
	6.4	Suitable UPS with maintenance free batteries for minimum one hour back up should be supplied with the system.	
		7. Standard Safety and Training: standardized data exchange with PRZ system via the integrated dicom module.	
	7.1	Manufactures/ supplier should have ISO certificate to Quality Standard.	
	7.2	Should be compliant with IEC 61010-1: (or any international equivalent eg EN/UL 61010) covering safety requirements for electrical	

		equipment for measurement control and laboratory use.	
		7.3 Should be FDA, CE , UL or BIS approved product.	
		7.4 Comprehensive training for lab staff and support services till familiarity with the system.	
		7.5 Back to back warranty to be taken by the supplier from the principal to supply spares for a minimum period 10 years.	
		7.6 Comprehensive warranty for 5 years and 5 years additional CMC after warranty.	
		7.7 Service centre should be located in Assam or surrounding area.	
		8. Documentation :	
		8.1 User / Technical / Maintenance manuals to be supplied in English,	
		8.2 Certificate of calibration and inspection.	
		8.3 List of equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service/technical manual.	
		8.4 List of important spare parts and accessories with their part number and costing.	
		8.5 Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spell out.	
		8.6 Compliance report to be submitted in a tabulated and point wise manner clearly mentioning the page /Para number of original catalogue / data sheet. Any point if not substantiated with authenticated catalogue/manual, will not be considered.	
		N:B. FDA,CE,UL or BIS Conform to IEC 60601-1-2 :2005	

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17	Mayo Stand	For surgical Instrument, made of stainless steel, hydraulic system for lifting and lowering pedal powered, height adjustable, width 65cm OR MORE, depth 53cm or more, high, 85-120 cm, steel tray mounted on ball bearing 75mm swivel castor with break FDA, CE, UL or BIS approved product.	Neurosurgery

Sl No	Name of Items	Specification	Department
1	Electrocautery	For dermatological works	Dermatology

2	High Frequency Low temperature Radiosurgery unit	<p>With standard accessories and electrodes with the following specifications:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Frequency : 3.8 MHz, <input type="checkbox"/> Power Output : 140 Watts, <input type="checkbox"/> No need of ground contact or skin contact of Antenna plate, <input type="checkbox"/> EMC Foot switch activated, <input type="checkbox"/> Four wave forms and five modalities of operation, <input type="checkbox"/> Autoclavable & disposable hand piece and neutral plates, <input type="checkbox"/> Cuts without exerting any pressure, <input type="checkbox"/> Bacterial free incision, <input type="checkbox"/> Fine and active tungsten wire electrodes having flexible shaft that may be bent and modified to satisfy any need, <input type="checkbox"/> The electrodes do not need to be Sharpened and can be easily sterilized, <input type="checkbox"/> CE mark / EMC compliance, ISO 9001, Certified and FDA 510K approved, <input type="checkbox"/> Size : 8"x 6 1/4 x 9", <input type="checkbox"/> Weight: 9 lbs. <p>Electrodes:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Fine Wire 1/4" Round Loop <input type="checkbox"/> Fine Wire 1/4" Triangle Loop, <input type="checkbox"/> Fine Wire 3/16" Diamond Loop, <input type="checkbox"/> 1/31" x 3/8" Straight Needle, <input type="checkbox"/> 2mm Ball, <input type="checkbox"/> Broad Needle – Bent Tip, <input type="checkbox"/> Vari-Tip. <p>Accessories:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Antenna Plate, <input type="checkbox"/> Hand Piece, <input type="checkbox"/> Power Cord. <p>FDA, CE, UL, or BIS approved product.</p>	Dermatology

3	Phototherapy Unit	Phototherapy WHOLE BODY unit with 12 UVA+12UVB(31nm) 100W Philips Holland Tubes with latest inbuilt Multi sensor Dosimeter with Dynamic range angular Sensitivity(DRAS) technology, Personalized Phototherapy patient Data card 100 Nos. FDA,CE,UL or BIS approved product	Dermatology

4	MICRODERM ABRASION	(Imported Turbo Pump) with 1 kg aluminum oxide crystals 100microns, Diamond Tip of 3 different sizes, soft probe, Tough probe, FAQ as per sample 100 Nos. and MICRODERMABRASION poster. FDA, CE, UL, or BIS approved product.	Dermatology

5	Q Switched Nd Yag Laser	<p>With the following specifications :</p> <p>Technical Specifications</p> <ul style="list-style-type: none"> • Wavelength : 532 and 1064 nm, • Spot Sizes : 2,5 - 4 - 5,5; optional 2 mm; free running 7 mm, • Pulse Rate: Max. 10 Hz, • Pulse Duration: Q-switched-mode: 8ns <p>Free-running-mode: approx. 300µs</p> <ul style="list-style-type: none"> • Dimensions: 36 x 78 x-97 cm, <p>FDA, CE,UL or BIS approved product.</p>	Dermatology

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Sl No	Name of Items	Specification	Department
1.	Computerized Autonomic Function Testing System	<p>The system should be able to record and analyse.</p> <ol style="list-style-type: none"> 1. Non Invasive beat to beat Blood pressure monitoring in Human with Systolic, Diastolic and other hemodynamic parameters (CO, SV, TPR, Baro-reflex sensitivity, Blood Pressure variability etc.) by finger arterial pressure measurement. 2. Continuous ECG monitoring and recording with real time HRV Analysis. 3. Dynamometer to study handgrip strength profile with balance board for static posturography studies. 4. Non Invasive Tonometer for Vascular function Testing 5. Number of channels: 8 or more channels high speed USB Data Acquisition system. 6. Range: ± 2 mV to ± 10 V and Sampling rate of 10 KHz or more per channel (aggregate speed), ADC resolution = 16 bits on all gain ranges 7. Multichannel Universal Bio-amplifier for recoding 12 leads ECG. 8. The Beat to beat Blood pressure monitor should be supplied with HCU and Finger cuffs of 3 different sizes (i.e. small, medium & large) and should have accuracy: 1% of full scale (max. 3 mmHg), zeroing automatic. 9. Transducers for Pulse Plethysmograph, Respiration, Surface Temperature probe, Non-Invasive tonometer, Hand dynamometer and Wireless Heart rate kit, airflow, GSR with other accessories as required. 10. Licensed Software: It should have various automatic analysis modules for ECG, HRV, Blood Pressure, Cardiac output, Peak analysis, spike histogram etc. 11. Should be supplied with spirometry set up including amplifier, flow head, disposal mouthpieces for pulmonary function test with software module for analysis. 12. Online & offline analysis with various export options for common formats. 13. The software should be provided with a 5 year of free updates and upgrades. 14. Electric Motorized Tilt Table with Adjustable angle dual foot boards - positive and negative tilt, Electric height and tilting operation with hand switch control and working load not less than 150kg, Height range 47cm - 101cm, tilt angle from horizontal to 90 degree to be provided with the system. 15. Computer System: Intel Core i5, Genuine Windows 8 professional, 21 inch LED Monitor, 4GB RAM, 500GB SATA Hard Drive, DVD. Facility for internet connectivity, Laser printer and 2 kVA UPS. 16. Proper Demonstrations to be carried out before finalizing. 17. Onsite training should be provided by the company experts for 7 -10 days. 18. CE, ISO, FDA and other safety certificates must be provided. 19. The system should have world-wide installation, acceptance and recognition in published research papers globally. Performance certificates should be provided from the users using the system in India/abroad. 	Physiology

SCHEDULE-3 (Part II)
Technical Specifications of Hand Instruments of Neurosurgery

Note: The following instruments are to be offered with 3 years warranty.

Tender Technical Specifications for Aneurysm Clip Set :

Clip, Stand.,perm., str., 7mm	1
Clip, Stand.,perm., slight cvd., 7mm	1
Clip, Stand.,perm., str., 9mm	1
Clip, Stand.,perm., slight cvd., 9mm	1
Clip, Stand.,perm., str., 11mm	1
Clip, Stand.,perm., slight cvd., 11mm	1
Clip, Stand.,perm.,fen. 3.5mm,str.,7mm	1
Clip, Stand.,perm.,fen. 3.5mm,str.,9mm	1
Clip, Stand.,perm.,fen. 3.5mm,ang.,7mm	1
Clip, Stand.,perm.,fen. 3.5mm,str.,12mm	1
Clip, Stand.,perm.,fen. 5mm,str.,7mm	1
Clip, Stand.,perm.,fen. 5mm,ang.,5mm	1
Clip, Stand.,perm.,fen. 5mm,str.,9mm	1
Clip, Stand.,perm.,fen. 5mm,ang.,7mm	1
Clip, Stand.,perm.,fen. 5mm,ang.,11mm	1
Clip, Stand.,temp., str., 7mm	1
Clip, Stand.,temp., str., 9mm	1
Clip, Stand.,temp., cvd., 90g, 9mm	1
Clip, Stand.,temp., str., 11mm	1
Clip, Mini, perm., used str., 5mm	1
Clip, Mini, perm., straight, 5mm	1
Clip, Mini, perm., straight , 7mm	1
Clip, Mini, perm., curved , 7mm	1
Clip, Mini, temp., str., 5mm	1
Appl.Fcps.f. Stand.Clips,bay.,turn.,23cm	1
Appl.Fcps. f. Stand.Clips,bay.shaft,11cm	1
Appl.Fcps. f. Mini Clips,bay.,turn.,23cm	1

Appl.Fcps. f. Mini Clips,bay.shaft, 11cm	1
Storage Rack f. Clips	1
Clip, Mini, temp., cvd., 7mm	1
Clip, Mini, temp., str., 7mm	1

Tender Technical Specifications for Aneurysm Clip Set:

Clip, Stand.,perm., str., 7mm	1
Clip, Stand.,perm., slight cvd., 7mm	1
Clip, Stand.,perm., str., 9mm	1
Clip, Stand.,perm., slight cvd., 9mm	1
Clip, Stand.,perm., str., 11mm	1
Clip, Stand.,perm., slight cvd., 11mm	1
Clip, Stand.,perm.,fen. 3.5mm,str.,7mm	1
Clip, Stand.,perm.,fen. 3.5mm,str.,9mm	1
Clip, Stand.,perm.,fen. 3.5mm,ang.,7mm	1
Clip, Stand.,perm.,fen. 3.5mm,str.,12mm	1
Clip, Stand.,perm.,fen. 5mm,str.,7mm	1
Clip, Stand.,perm.,fen. 5mm,ang.,5mm	1
Clip, Stand.,perm.,fen. 5mm,str.,9mm	1
Clip, Stand.,perm.,fen. 5mm,ang.,7mm	1
Clip, Stand.,perm.,fen. 5mm,ang.,11mm	1
Clip, Stand.,temp., str., 7mm	1
Clip, Stand.,temp., str., 9mm	1
Clip, Stand.,temp., cvd., 90g, 9mm	1
Clip, Stand.,temp., str., 11mm	1
Clip, Mini, perm., used str., 5mm	1
Clip, Mini, perm., straight, 5mm	1
Clip, Mini, perm., straight , 7mm	1
Clip, Mini, perm., curved , 7mm	1
Clip, Mini, temp., str., 5mm	1
Appl.Fcps.f. Stand.Clips,bay.,turn.,23cm	1
Appl.Fcps. f. Stand.Clips,bay.shaft,11cm	1
Appl.Fcps. f. Mini Clips,bay.,turn.,23cm	1
Appl.Fcps. f. Mini Clips,bay.shaft, 11cm	1
Storage Rack f. Clips	1
Clip, Mini, temp., cvd., 7mm	1
Clip, Mini, temp., str., 7mm	1

Tender Technical Specifications for Aneurysm Clip Set :

Clip, Stand.,perm., str., 7mm	1
Clip, Stand.,perm., slight cvd., 7mm	1
Clip, Stand.,perm., str., 9mm	1
Clip, Stand.,perm., slight cvd., 9mm	1
Clip, Stand.,perm., str., 11mm	1
Clip, Stand.,perm., slight cvd., 11mm	1
Clip, Stand.,perm.,fen. 3.5mm,str.,7mm	1
Clip, Stand.,perm.,fen. 3.5mm,str.,9mm	1
Clip, Stand.,perm.,fen. 3.5mm,ang.,7mm	1
Clip, Stand.,perm.,fen. 3.5mm,str.,12mm	1
Clip, Stand.,perm.,fen. 5mm,str.,7mm	1
Clip, Stand.,perm.,fen. 5mm,ang.,5mm	1
Clip, Stand.,perm.,fen. 5mm,str.,9mm	1
Clip, Stand.,perm.,fen. 5mm,ang.,7mm	1
Clip, Stand.,perm.,fen. 5mm,ang.,11mm	1
Clip, Stand.,temp., str., 7mm	1
Clip, Stand.,temp., str., 9mm	1
Clip, Stand.,temp., cvd., 90g, 9mm	1
Clip, Stand.,temp., str., 11mm	1
Clip, Mini, perm., used str., 5mm	1
Clip, Mini, perm., straight, 5mm	1
Clip, Mini, perm., straight , 7mm	1
Clip, Mini, perm., curved , 7mm	1
Clip, Mini, temp., str., 5mm	1
Appl.Fcps.f. Stand.Clips,bay.,turn.,23cm	1
Appl.Fcps. f. Stand.Clips,bay.shaft,11cm	1
Appl.Fcps. f. Mini Clips,bay.,turn.,23cm	1
Appl.Fcps. f. Mini Clips,bay.shaft, 11cm	1
Storage Rack f. Clips	1
Clip, Mini, temp., cvd., 7mm	1
Clip, Mini, temp., str., 7mm	1

Tender Technical Specifications for Cranial Set - Adult :

Scalpel Handle, No. 3, 12 cm	1
Scalpel Handle, No. 4, 13.5 cm	2
Operating Scissors, sh/bl, str., 14.5 cm	1
Scissors, Jameson, cvd., 15.5 cm	1
TC-Diss. Sciss., Toennis, cvd., 17.5 cm	1
TC-Scissors, Mayo, str., 17 cm	1
TC-Diss. Scissors, fine, str., 14.5 cm	1
Haem. Forceps, Mosquito, cvd., 12 cm	6
Forceps, Dandy, cvd. sidew., 14.5 cm	20
Forceps, Crile-Rankin, str., 16 cm	2
Towel Forceps, Backhaus, sharp, 11 cm	6
Forceps, Foerster, serr., str., 25 cm	2
Forceps, Foerster, serr., cvd., 24.5 cm	2
TC-Needleholder, Crile-Wood, 15 cm	2
TC-Needleholder, De Bakey, 18 cm	2
TC-Needleholder, Mayo-Hegar, 18.5 cm	2
Dressing Forceps, 14.5 cm	1
Tissue Forceps, 1X2 T., slim, 20.5 cm	2
Forceps, Gerald, 1X2 T., str., 17.5 cm	3
Ear Dress. Fcps., Jansen, bayo., 21.5 cm	2
Retr., Volkmann, semish., 2-Pr., 22.5 cm	2
Spreader, Adson-Anderson, 4X4 T., 19 cm	2
Hooklet, Cushing, 8 mm, 20.5 cm	1
Atr. Forceps, De Bakey, 2 mm, 16 cm	2
Atr. Forceps, De Bakey, 2 mm, 20 cm	2
Bone Rongeur, Ruskin, cvd., 24 cm	1
Bone Rongeur, Ruskin, cvd., 19 cm	1
Hook Handle, f. Wire Saws	4
Wire Saw, Gigli, fourfold, 50 cm	1
Bone Curette, Volkm., oval, No. 0, 17 cm	1
Raspatory, Williger, cvd., 7 mm, 16 cm	1

Raspatory, Langenbeck, cvd., 19 cm	1
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Elevator, Langenbeck, 7 mm, 19.5 cm	2
TC-Universal Wire Sciss., ang., 12.5 cm	1
Hand Drill, Hudson, complete, 28 cm	1
Burr, Flat Type, Cushing, 14 mm Wide	2
Wire Saw Conductor, De Martel	2
Dura Scissors, Schmiden-Taylor, 16.5 cm	1
Applying/Removal Forceps f. Raney-Clips	2
Scalp Clamp, Raney	12
Dura-Dissector, Toennis, double, 24 cm	1
Suction Tube, Frazier, 2.3 mm, 19.5 cm	1
Suction Tube, Frazier, 3.0 mm, 19.5 cm	1
Suction Tube, Frazier, 4.0 mm, 19.5 cm	1
Galea Retractor, (Hook) Yasargil, 30 cm	4
Brain Spatula, Olivecr., conc., 7/9 mm	1
Brain Spatula, Olivecr., conc., 11/13 mm	1
Brain Spatula, Olivecr., conc., 15/18 mm	1
Brain Spatula, Olivecr., conc., 18/22 mm	1
Brain Spatula, Heifetz, mall., 8X155 mm	1
Brain Spatula, Heifetz, mall., 14X155 mm	1
Brain Spatula, Heifetz, mall., 17X155 mm	1
Woundspreader, blunt, 3X4 T., 13.5 cm	1
Dura Hooklet, 90°, sharp, cvd., 19 cm	2
Micro Scissors, Yasargil, bay.str., 16.5cm	2
Grasp.Fcps., Heifetz, bay., 3mm, 22cm	1
Septum Elevator, Freer, sh/bl, 18 cm	1
Septum Elevator, Halle, 3.5 mm, 16 cm	1
Skin Hooklet, Gillies, No. 1, 18 cm	2
Septum Elevator, Joseph, 4 mm, 16.5 cm	1
CONTAINER MS, 60X30X16 CM, HANDLE GREY	1
Tray DIN, 480x255x33 mm	1
Tray DIN, 480x255x73 mm	1
COLOR-TAG, RED	2
CODING LABEL, WITH TEXT, WITHOUT HOLE	2

Tender Technical Specifications for Cranial Set - Children :

Scalpel Handle, No. 3, 12 cm	1
Scalpel Handle, No. 4, 13.5 cm	2
Operating Scissors, sh/bl, str., 14.5 cm	1
Operating Scissors, sh/sh, cvd., 12 cm	1
Operating Scissors, bl/bl, cvd., 12 cm	1
Scissors, Jameson, cvd., 15.5 cm	1
TC-Diss. Sciss., Toennis, cvd., 17.5 cm	1
TC-Scissors, Mayo, str., 17 cm	1
TC-Diss. Scissors, fine, str., 14.5 cm	1
Haem. Forceps, Mosquito, cvd., 12 cm	6
Forceps, Dandy, cvd. sidew., 14.5 cm	20
Forceps, Kocher, 1X2 T., str., 14 cm	2
Forceps, Crile-Rankin, str., 16 cm	2
Towel Forceps, Backhaus, sharp, 11 cm	6
Forceps, Foerster, serr., cvd., 24.5 cm	2
TC-Needleholder, Crile-Wood, 15 cm	2
TC-Needleholder, De Bakey, 18 cm	2
TC-Needleholder, Mayo-Hegar, 18.5 cm	2
Dressing Forceps, 14.5 cm	1
Tissue Forceps, 1X2 T., slim, 14.5 cm	2
Tissue Forceps, 1X2 T., slim, 20.5 cm	2
Forceps, Gerald, 1X2 T., str., 17.5 cm	1
Ear Dress. Fcps., Jansen, bayo., 16 cm	2
Retr., Volkmann, semish., 2-Pr., 22.5 cm	2
Woundspreader, blunt, 3X4 T., 13.5 cm	1
Spreader, Mollison, sharp, 4X4 T., 15 cm	1
Dressing Forceps, Micro-Adson, 12 cm	2
Forceps, Micro-Adson, 1X2 T., 12 cm	2
Atr. Forceps, De Bakey, 2 mm, 16 cm	2
Atr. Forceps, De Bakey, 2 mm, 20 cm	2
Bone Rongeur, Beyer, cvd., 18 cm	1
Hook Handle, f. Wire Saws	4
Wire Saw, Gigli, fourfold, 50 cm	1
Bone Cur., Volkm., oval, No. 000, 17 cm	1
Elevator, Williger, 7 mm, 17 cm	2
Raspatory, str., round, 6 mm, 12.5 cm	1
Raspatory, Langenbeck, cvd., 19 cm	1
TC-Universal Wire Sciss., ang., 12.5 cm	1

Hand Drill, Hudson, complete, 28 cm	3
Burr, Flat Type, Cushing, 14 mm Wide	2
Wire Saw Conductor, De Martel	2
Dura Scissors, Schmiden-Taylor, 16.5 cm	1
Applying/Removal Forceps f. Raney-Clips	2
Scalp Clamp, Raney	12
Dura Hooklet, Frazier, sharp, 13 cm	2
Dura-Dissector, Toennis, double, 24 cm	1
Suction Tube, Frazier, 2.3 mm, 19.5 cm	1
Suction Tube, Frazier, 3.0 mm, 19.5 cm	1
Suction Tube, Frazier, 4.0 mm, 19.5 cm	1
Galea Retractor, (Hook) Yasargil, 30 cm	4
Brain Spatula, Olivecr., conc., 7/9 mm	1
Brain Spatula, Olivecr., conc., 11/13 mm	1
Brain Spatula, Heifetz, mall., 8X155 mm	1
Brain Spatula, Heifetz, mall., 14X155 mm	1
Ultrasonic Fixation for Resorbable with complete set	1
Brain Spatula, Heifetz, mall., 17X155 mm	1
Woundspreader, blunt, 3X4 T., 13.5 cm	1
Micro Hooklet, blunt, 23cm	1
Dura Hooklet, 90°, sharp, cvd., 19 cm	2
Micro Scissors, Yasargil, bay. cvd., 20cm	1
Grasp. Fcps., Heifetz, bay., 3mm, 22cm	2
Septum Elevator, Freer, sh/bl, 18 cm	1
Septum Elevator, Halle, 3.5 mm, 16 cm	1
MICRO HOOK 230MM, BLUNT	1

CONTAINER MS, 60X30X16 CM, HANDLE GREY	1
Tray DIN, 480x255x33 mm	1
Tray DIN, 480x255x73 mm	1
COLOR-TAG, RED	2
CODING LABEL, WITH TEXT, WITHOUT HOLE	2

Tender Technical Specifications for Drill Set :

INSTR.-TRAY BOS-SYSTEM,15X30CM, COMPLETE	1
INSERT BOS-SYSTEM FOR TWIST DRILLS	1
SUBSTITUTE COVER FOR HINGE CONTAINER TO	1
TWIST DRILL 0.7X40X5 MM FOR BOS DRILL	5
TWIST DRILL 1.1X40X5 MM FOR BOS DRILL	5
TWIST DRILL 1.1X40X7 MM FOR BOS DRILL	5
TWIST DRILL 1.5X40X5 MM FOR BOS DRILL	5
TWIST DRILL 1.5X40X7 MM FOR BOS DRILL	5
TWIST DRILL 1.5X50X24 MM FOR BOS DRILL	5
TWIST DRILL 1.5X115X40 MM FOR BOS DRILL	5
TWIST DRILL 1,9X70X40 MM FOR BOS DRILL	5
TWIST DRILL 1,9X115X86 MM FUER BOS DRILL	5
TWIST DRILL 2,2X115X86 MM FOR BOS DRILL	5
BOS-BATTERY PACK, STERILE (10 PC)	1

Tender Technical Specifications for Hypophysectomy Transnasal Set :

SCALPEL HANDLE, NO. 4, 13.5 CM	1
SCALPEL HANDLE, NO. 3, 12 CM	1
OPERATING SCISSORS, SH/BL, STR., 14.5 CM	1
TC-SCISSORS, LEXER, FINE, STR., 16 CM	1
TC-DISS. SCISSORS, FINE, CVD., 14.5 CM	1
TC-DISS. SCISS., TOENNIS, CVD., 17.5 CM	1
TISSUE FORCEPS, 1X2 T., SLIM, 14.5 CM	2
FORCEPS, GERALD, 1X2 T., STR., 17.5 CM	1
TOWEL FORCEPS, BACKHAUS, SHARP, 11 CM	4
TOWEL FORCEPS, BACKHAUS, SHARP, 11 CM	4
FORCEPS, FOERSTER, SERR., CVD., 24.5 CM	2
Chisel, Stille, 10 mm, 20.5 cm	1
Chisel, Stille, 12 mm, 20.5 cm	1
Chisel acc. Tew #12, 26cm	1
Mallet, Williger, 140 gr., 16.5 cm	1
Hooklet, Cushing, 10 mm, 24 cm	2
Haemostatic Forceps, Pean, str., 22.5 cm	2
Tampon Forceps, Ulrich, str., 22.5 cm	1
Forceps, gross-Maier, str., 20.5 cm	1
TC-Needleholder, Mayo-Hegar, 16 cm	1
TC-Dissecting Scissors, cvd., 17.5 cm	1
TC-Scissors, Lexer, fine, cvd., 16 cm	1
Operating Scissors, sh/bl, str., 14.5 cm	1
strabismus Sciss., bl/bl, cvd., 11.5 cm	1
TC-Dress. Forceps, Potts-Smith, 18.5 cm	1
Ear Dress. Fcps., Jansen, bayo., 21.5 cm	1
Tissue Forceps, 1X2 T., 14.5 cm	2
Tissue Forceps, Gillies, 1X2 T., 15 cm	1
Nasal Speculum, Cottle, 85 mm, No. 4	1
Pituit. Specula, Papav.-Caspar, 80X11mm	1
Pituit. Specula, Papav.-Caspar, 90X13mm	1

Punch, 40°, 1mm, 20cm	1
Punch, 40°, 2mm, 20cm	1
Punch, 40°, 3mm, 20cm	1
Punch, 40°, 4mm, 20cm	1
Rongeur, Caspar, str., 5 mm, 15 cm	1
Rongeur, Caspar, str., 3 mm, 15 cm	1
Rongeur, Wagner, strong mod., 5 mm, 20cm	1
Pituitary Forceps, Yasargil, 2,2 mm	1
Micro Scissors acc. Tew, 2,5mm, straight	1
Micro Scissors acc. Tew, 2,5mm, curved	1
Micro Biopsy Forceps acc. Tew	1
Micro Alligator Forceps acc. Tew	1
Suct. Tube, Fergusson, Wl:110 mm, 2.5 mm	1
Suct. Tube, Fergusson, Wl:110 mm, 3.0 mm	1
Suct. Tube, Fergusson, Wl:110 mm, 4.0 mm	1
Suct. Tube, Fergusson, Wl:110 mm, 5.0 mm	1
Suction Tube, Plester, 1.5 mm, 19.5 cm	1
Suction Valve, Cerullo	1
Curette acc. Mikael #12, bay.	1
Handle for Mikael Instruments	2
Hook acc. Mikael #1, 45°, bay., 26cm	1
Dissector acc. Mikael #7, baj., 26cm	1
Dissector acc. Mikael #8, bay., 26cm	1
Sickle Knife acc. Mikael #10, bay. 26cm	1
Curette acc. Mikael #12, bayonet, 26cm	1
Micro Dissect.,Caspar,cvd.dn.,4.5mm,23cm	1
Micro Dissect.,Caspar,cvd.up,1mm,20cm	1
Curette acc. Mikael #14, 45°, bay. 26cm	1
Curette acc. Tew #13, sharp, 90°, up	1
Curette acc. Tew #14, sharp, 45°, up	1
Curette acc. Tew #15, sharp, 45°, down	1
Curette acc. Tew #16, sharp, 90°, up	1

Curette acc. Tew #17, sharp, 45°, up	1
Curette acc. Tew #18, sharp, 45°, down	1
Curette acc. Tew #19, blunt, 90°, up	1
Curette acc. Tew #20, blunt, 45°, up	1
Curette acc. Tew #21, blunt, 45°, down	1
Handle for Tew Instruments	2
Hook acc. Mikael #11, bayonet, 26cm	1
Scalpel Handle, No. 3, 12 cm	1
Scalpel Handle, No. 7, solid, 16 cm	1
Raspatory, Williger, cvd., 5 mm, 16 cm	1
Septum Elevator, Freer, sh/bl, 18 cm	1
Nerve Hook, Crile, 90°, 20 cm	1
Woundspreader, sharp, 3X4 T., 16 cm	1
Grasp.Fcps., Yasargil-Samii, bay., 7mm, 24cm	1
Towel Forceps, Backhaus, sharp, 11 cm	1
Towel Forceps f. Paper Drapes, 11.5 cm	2
Bip. cable f. Codm. & Valleyl. Inst. 5 m	1
Nst-Red-Fcps., ang., bl. 1,0 mm, 20 cm	1
Nst-Red-Fcps., bay., str., 1,0 mm, 20 cm	1
Nst-Red-Fcps., bay., downw.-B., 0,6 mm,	1
CONTAINER MS, 60X30X16 CM, HANDLE GREY	2
Tray DIN, 480x255x33 mm	2
Tray DIN, 480x255x73 mm	2
COLOR-TAG, RED	4
CODING LABEL, WITH TEXT, WITHOUT HOLE	4

Tender Technical Specifications for Laminectomy Set :

Scalpel Handle, No. 3, 12 cm	1
Scalpel Handle, No. 4, 13.5 cm	2
Operating Scissors, sh/bl, str., 14.5 cm	1
Scissors, Mayo, cvd., 23.5 cm	1
TC-Diss. Sciss., Toennis, cvd., 17.5 cm	1
TC-Scissors, Lexer, fine, str., 16 cm	2
TC-Dissecting Scissors, cvd., 20.5 cm	1
Forceps, Pean, delicate, str., 17 cm	4
Forceps, Crile-Rankin, str., 16 cm	4
Diss. Forceps, Overholt, No. 1, 20.5 cm	1
Towel Forceps, Backhaus, sharp, 11 cm	12
Forceps, Foerster, serr., str., 25 cm	2
TC-Needleholder, Crile-Wood, 15 cm	2
TC-Needleholder, Mayo-Hegar, 18.5 cm	2
Dressing Forceps, medium wide, 14.5 cm	1
Tissue Forceps, 1X2 T., slim, 16 cm	2
Tissue Forceps, Adson, 1X2 T., 15 cm	2
Tissue Forceps, Waugh, 1X2 T., 20 cm	1
Forceps, Gerald, 1X2 T., str., 17.5 cm	2
Nasal Tampon Forceps, Gruenwald, 21.5 cm	1
Suction Tube, Yankauer, compl., 31 cm	1
Retr., Volkmann, semish., 2-Pr., 22.5 cm	2
Retractor, Langenbeck, 30X16 mm, 22 cm	2
Retractor, Kocher, 40X10 mm, 22 cm	4
Spreader, Adson-Anderson, 4X4 T., 19 cm	2
Hooklet, Cushing, 8 mm, 20.5 cm	1
Hooklet, Cushing, 10 mm, 20.5 cm	1
Atr. Forceps, De Bakey, 2 mm, 16 cm	1
Atr. Forceps, De Bakey, 1.5 mm, 20 cm	1
Raspatory, Sedillot, 15 mm, 18.5 cm	1
Bone Cutt. Forceps, Stille-Liston, 28 cm	1

Bone Rongeur, Stille-Ruskin, 23.5 cm	1
Bone Rongeur, Frykholm, cvd., 24.5cm	1
Bone Rongeur, Semb, cvd., 23.5 cm	1
Punch, 40°, 3mm, 18cm	1
Punch, 40°, 5mm, 18cm	1
Punch, 40°, 6mm, 20cm	1
Punch, 40°, 3mm, 23cm	1
Punch, 40°, 5mm, 23cm	1
Punch, 40°, 6mm, 23cm	1
Punch, 40°, 2mm, slim, 23cm	1
Raspatory, Cobbs, 13 mm, 28 cm	1
Raspatory, Cobbs, 19 mm, 28 cm	1
Osteotome, Lexer, 15 mm, 22 cm	1
Osteotome, Lexer, 30 mm, 22 cm	1
Bone Curette, Volkm., oval, No. 1, 17 cm	1
Bone Curette, Volkm., oval, No. 3, 17 cm	1
Dura-Dissector, Toennis, double, 24 cm	1
Dura-Dissector, Olivecrona, dbl., 24 cm	1
Suction Tube, Frazier, 2.0 mm, 19.5 cm	1
Suction Tube, Frazier, 3.3 mm, 19.5 cm	1
Suction Tube, Frazier, 4.0 mm, 19.5 cm	1
Nerve Root Retract., Hess, 3 mm, 18 cm	1
Nerve Root Retract., Hess, 5 mm, 18 cm	1
Nerve Root Retract., Hess, 7 mm, 18 cm	1
Laminect. Retractor-Frame, Scoville-Hav.	1
Hook-blade, Scoville, blunt, 50 mm	1
Hook-blade, Scoville, 4-Pr., 44X38 mm	2
Hook-blade, Scoville, 4-Pr., 67X44 mm	2
Rongeur, Caspar, str., 2 mm, 18 cm	1
Rongeur, Caspar, str., 3 mm, 18 cm	1
Rongeur, Caspar, str., 4 mm, 18 cm	1
Rongeur, Caspar, str., 2 mm, 20 cm	1

Rongeur, Caspar, str., 3 mm, 20 cm	1
Rongeur, Caspar, str., 4 mm, 20 cm	1
Rongeur, Caspar, upw., 2 mm, 18 cm	1
Rongeur, Caspar, upw., 3 mm, 18 cm	1
Rongeur, Caspar, upw., 4 mm, 18 cm	1
Hooklet, Caspar, 90°, 5 mm, 24.5 cm	1
Hooklet, Caspar, 90°, 7 mm, 24.5 cm	1
Hooklet, Caspar, 90°, 9 mm, 24.5 cm	1
Micro Scissors, Yasargil, bay.str., 20cm	1
Nst-Red-Fcps., bay., str., 1,0 mm, 23 cm	1
Bip. cable f. Codm. & Valleyl. Inst. 5 m	1
Bone Rongeur, Lempert, str., 19 cm	1
Bone Curette, Simon, ov., No. 6, 22.5 cm	1
CONTAINER MS, 60X30X16 CM, HANDLE GREY	1
Tray DIN, 480x255x33 mm	1
Tray DIN, 480x255x73 mm	1
COLOR-TAG, RED	2
CODING LABEL, WITH TEXT, WITHOUT HOLE	2

Tender Technical Specifications for Leyla Retractor Set :

SPATULA, MARTIN, MALLEAB., 13 MM, 20 CM	1
SPATULA, MARTIN, MALLEAB., 16 MM, 20 CM	1
BRAIN SPATULA, HEIFETZ, MALL., 8X155 MM	1
BRAIN SPATULA, HEIFETZ, MALL., 14X155 MM	1
BRAIN SPATULA, SUGITA, MALL	1
FIXATION ARM, FLEXIBLE	2
FIXATION BASE F. 1 ARM	1
FIXATION BASE F. 2 ARMS	2
FIXATION BASE F. 1 ARM	1
SUPPORT, W. ROUND SHAFT	2
SPATULA HOLDER, F. FLAT SPATULAS	2
COUPLING HEAD F. LEYLA-RETRACTOR	1
HOLDING ROD F. LEYLA-RETRACTOR	1
COUPLING HEAD F. 1 TO 5 ARMS	1
BRAIN SPATULA, HEIFETZ, MALL., 11X155 MM	2
BRAIN SPATULA, HEIFETZ, MALL., 20X200 MM	1
NITINOL BRAIN SPATULA 4X180MM	1
NITINOL BRAIN SPATULA 8X180MM	1
NITINOL BRAIN SPATULA 10X180MM	1
NITINOL BRAIN SPATULA 14X180MM	1
NITINOL BRAIN SPATULA 16X180MM	1
Tray DIN, 480x255x33 mm	1
Tray DIN, 480x255x73 mm	1
COLOR-TAG, RED	2
CODING LABEL, WITH TEXT, WITHOUT HOLE	2

Tender Technical Specifications for Leyla Retractor Set :

SPATULA, MARTIN, MALLEAB., 13 MM, 20 CM	1
SPATULA, MARTIN, MALLEAB., 16 MM, 20 CM	1
BRAIN SPATULA, HEIFETZ, MALL., 8X155 MM	1
BRAIN SPATULA, HEIFETZ, MALL., 14X155 MM	1
BRAIN SPATULA, SUGITA, MALL	1
FIXATION ARM, FLEXIBLE	2
FIXATION BASE F. 1 ARM	1
FIXATION BASE F. 2 ARMS	2
FIXATION BASE F. 1 ARM	1
SUPPORT, W. ROUND SHAFT	2
SPATULA HOLDER, F. FLAT SPATULAS	2
COUPLING HEAD F. LEYLA-RETRACTOR	1
HOLDING ROD F. LEYLA-RETRACTOR	1
COUPLING HEAD F. 1 TO 5 ARMS	1
BRAIN SPATULA, HEIFETZ, MALL., 11X155 MM	2
BRAIN SPATULA, HEIFETZ, MALL., 20X200 MM	1
NITINOL BRAIN SPATULA 4X180MM	1
NITINOL BRAIN SPATULA 8X180MM	1
NITINOL BRAIN SPATULA 10X180MM	1
NITINOL BRAIN SPATULA 14X180MM	1
NITINOL BRAIN SPATULA 16X180MM	1
Tray DIN, 480x255x33 mm	1
Tray DIN, 480x255x73 mm	1
COLOR-TAG, RED	2
CODING LABEL, WITH TEXT, WITHOUT HOLE	2

Tender Technical Specifications for Micro Lumbar Discectomy Set :

Scalpel Handle, No. 3, 12 cm	1
Scalpel Handle, No. 3XL, 26 cm	1
Scalpel Handle, No. 4, 13.5 cm	2
Operating Scissors, sh/bl, str., 14.5 cm	1
TC-Diss. Sciss., Toennis, cvd., 17.5 cm	1
TC-Scissors, Lexer, fine, str., 16 cm	1
TC-Dissecting Scissors, cvd., 20.5 cm	1
Forceps, Pean, delicate, str., 17 cm	2
Forceps, Crile-Rankin, str., 16 cm	2
Towel Forceps, Backhaus, sharp, 11 cm	12
Forceps, Foerster, serr., str., 25 cm	2
TC-Needleholder, Mayo-Hegar, 18.5 cm	2
TC-Needleholder, Mayo-Hegar, 16 cm	2
Dressing Forceps, medium wide, 14.5 cm	1
Tissue Forceps, 1X2 T., slim, 16 cm	2
Tissue Forceps, Adson, 1X2 T., 15 cm	2
Tissue Forceps, Waugh, 1X2 T., 20 cm	1
Nasal Tampon Forceps, Gruenwald, 21.5 cm	1
Retract., Kocher-Lang., 40X11 mm, 21.5cm	1
Retractor, Kocher, 40X10 mm, 22 cm	1
Woundspreader, sharp, 3X4 T., 13.5 cm	1
Atr. Forceps, De Bakey, 2 mm, 16 cm	1
Atr. Forceps, De Bakey, 1.5 mm, 20 cm	1
Raspatory, Sedillot, 15 mm, 18.5 cm	1
Bone Rongeur, Marquard, 20.5 cm	1
Punch, 40°, 2mm, 18cm	1
Punch, 40°, 3mm, 18cm	1
Punch, 40°, 6mm, 20cm	1
Punch, 40°, 3mm, 23cm	1
Punch, 40°, 4mm, 23cm	1
Punch, 40°, 1mm, 23cm	1

Bone Curette, ang. down, No. 0, 25 cm	1
Bone Curette, ang. down, No. 1, 25 cm	1
Dura-Dissector, Olivecrona, dbl., 24 cm	1
Suction Tube, Frazier, 2.7 mm, 19.5 cm	1
Suction Tube, Frazier, 3.3 mm, 19.5 cm	1
Suction Tube, Frazier, 4.0 mm, 19.5 cm	1
Nerve Root Retract., Hess, 3 mm, 18 cm	1
Nerve Root Retract., Hess, 5 mm, 18 cm	1
Nerve Root Retract., Hess, 7 mm, 18 cm	1
Laminect. Forceps, 3X10 mm, down, 18 cm	1
Rongeur, Caspar, str.bayon., 2 mm, 18 cm	1
Rongeur, Caspar, str.bayon., 3 mm, 18 cm	1
Rongeur, Caspar, str.bayon., 5 mm, 18 cm	1
Rongeur, Caspar, str.bayon., 4 mm, 18 cm	1
Rongeur, Caspar, upw.bayon., 3 mm, 18cm	1
Rongeur, Caspar, upw.bayon., 4 mm, 18cm	1
Micro Dissect., Caspar, cvd. dn., 2.0mm, 23cm	1
Curette, lumb., forw.str., 24cm, No.0	1
Curette, lumb., forw.str., 24cm, No.1	1
Curette, lumb., forw.str., 24cm, No.2	1
Curette, lumb., forw.cvd., 24cm, No.0	1
Curette, lumb., forw.cvd., 24cm, No.1	1
Curette, lumb., forw.cvd., 24cm, No.2	1
Curette, lumb., forw.downw., 24cm, No.0	1
Curette, lumb., forw.downw., 24cm, No.1	1
Curette, lumb., forw.downw., 24cm, No.2	1
Curette, lumb., backw.str., 24cm, No.0	1
Curette, lumb., backw.str., 24cm, No.1	1
Curette, lumb., backw.str., 24cm, No.2	1
Curette, lumb., backw.cvd., 24cm, No.0	1
Curette, lumb., backw.cvd., 24cm, No.1	1
Curette, lumb., backw.cvd., 24cm, No.2	1

Curette, lumb., backw.downw., 24cm, No.0	1
Curette, lumb., backw.downw., 24cm, No.1	1
Curette, lumb., backw.downw., 24cm, No.2	1
Dissector acc. Mikaeel #3, bay., small	1
Dissector acc. Mikaeel #4, bay., medium	1
Dissector acc. Mikaeel #5, bay., large	1
Wax Applicator acc. Mikaeel #13, bay.	1
Hook acc. Mikaeel #2, 45°, bay., small	1
Handle for Mikaeel Instruments	2
Hooklet, Caspar, 90°, 5 mm, 24.5 cm	1
Hooklet, Caspar, 90°, 7 mm, 24.5 cm	1
Hooklet, Caspar, 90°, 9 mm, 24.5 cm	1
Micro Scissors, Yasargil, bay.str., 20cm	1
Bone Rongeur, Lempert, str., 19 cm	1
CONTAINER MS, 60X30X16 CM, HANDLE GREY	2
Tray DIN, 480x255x33 mm	2
Tray DIN, 480x255x73 mm	2
COLOR-TAG, RED	4
CODING LABEL, WITH TEXT, WITHOUT HOLE	4
Scissors, Deaver, str., 14.5 cm	1
Haem. Forceps, Mosquito, cvd., 12 cm	6
Forceps, Mosquito, 1X2 T., str., 21 cm	2
Diss. Forceps, Baby-Mixer, cvd., 18.5cm	1
Towel Forceps f. Paper Drapes, 14 cm	2
Tampon Forceps, Ulrich, str., 22.5 cm	2
Tissue Forceps, 2X3 T., 14.5 cm	1
Forceps, Gerald, 1X2 T., str., 17.5 cm	1
Guide Needle, ang., Knife shape, 12 CH	1
Soft Tissue Retr., 80X16 mm, 23 cm	2
Spreader, Adson-Anderson, 4X4 T., 19 cm	2
TC-Micro Needleholder, str., w. lock, 22	1
Suction Cannula, 2.0 mm, 16 cm	2

Bone Cutt. Forceps, Stille-Liston, 28 cm	1
Bone Rongeur, Ruskin, cvd., 19 cm	1
Punch, 40°, 5mm, 18cm	1
Osteotome, Lambotte, cvd., 30 mm, 24 cm	1
Bone Curette, Simon, ov., No. 3, 22.5 cm	1
Bone Curette, Simon, ov., No. 5, 22.5 cm	1
Bone Curette, Simon, ov., No. 6, 22.5 cm	1
Raspatory, Langenbeck, cvd., 19 cm	1
Raspatory, cvd., round, 6 mm, 18 cm	1
Suction Tube, Frazier, 5.0 mm, 19.5 cm	1
Vein Cannula, button-ended, 1.5X80 mm	1
Spreader, Williams, right, 1X5 cm	1
Spreader, Williams, right, 1X6 cm	1
Spreader, Williams, right, 1X7 cm	1
Spreader, Williams, left, 1X5 cm	1
Spreader, Williams, left, 1X6 cm	1
Spreader, Williams, left, 1X7 cm	1
Vertebral Spreader, Cloward, 16 cm	1
Vertebral Spreader, Cloward, 14 cm	1
Rongeur, Caspar, str., 2 mm, 18 cm	1
Rongeur, Caspar, str., 3 mm, 18 cm	1
Rongeur, Caspar, str., 4 mm, 18 cm	1
Micro Hooklet, sharp, 23cm	1
Micro Hooklet, blunt, 23cm	1
Micro Scissors, Yasargil, bay.str., 22.5cm	1
Septum Elevator, Freer, sh/bl, 18 cm	1
Nasal Cutt. Fcps., Weil-Blakes., 3.0 mm	1

Tender Technical Specifications for Micro Set :

Scalpel Handle f. microblade, 13.5 cm	1
Curette acc. Mikaeel #14, 45°, bay.	1
Handle for Mikaeel Instruments	1
Tissue Fcps. w. Protector, 18 mm, 18.5cm	1
Micro Dissect., str., slim, 23cm	1
Micro Dissect., str., 23cm	1
Micro Vasc.Knife, Jacobson, str., 18.5cm	1
Micro Hooklet, sharp, 23cm	1
Micro Hooklet, blunt, 23cm	1
Nerve Hook, Krayenbuehl, No. 2, 19 cm	1

Nerve Hook, Krayenbuehl, No. 1, 19 cm	1
Dura Hooklet, 90°, sharp, ang.down, 19cm	1
Grasp.Fcps., Hunt, bay., 5 mm, 20cm	1
Grasp.Fcps., Yasargil, bay., 3 mm, 20cm	1
Micro Fcps., Yasargil, bay., 0.9mm, 20cm	1
Micro Fcps., Yasargil, bay., 0.6mm, 18cm	1
Micro Fcps., Yasargil, bay., 1X2T., 18cm	1
Micro Fcps., Yasargil, bay., 0.9mm, 24cm	1
Micro Scissors, Yasargil, bay.str., 22.5cm	1
Micro Scissors, Yasargil, bay.cvd., 16.5cm	1
Micro Scissors, Yasargil, bay.str., 20cm	1
TC-Micro Needleholder, str., w. lock, 22	1
Micro Sciss., bl/bl, cvd., 10 mm, 18 cm	1
Micro Alligator Forceps acc. Tew	1
Baron-Schuknecht Suction Tube 1,0 x 75 mm (Set of 3)	1
CONTAINER MS, 30X30X16 CM, HANDLE GREY	1
Tray 1/2, 243x255x33 mm	1
Tray 1/2, 243x255x73 mm	1
COLOR-TAG, RED	2
CODING LABEL, WITH TEXT, WITHOUT HOLE	2
Silicone mesh f. tray 1/2, 23x25 CM	2
SMALL PARTS BASKET, MESH, 80X80X40 MM	1

Tender Technical Specifications for Nerve Suture Set:

SCISSORS, REYNOLDS, STR., 15.5 CM	2
MICRO SCISSORS, SH/SH, STR., 9 MM, 15 CM	1
MICRO SCISSORS, SH/SH, STR., 9 MM, 15 CM	1
MICRO SCISSORS, BL/BL, STR., 9 MM, 15 CM	2
MICRO SCISS., BL/BL, CVD., 14 MM, 15 CM	1
TISSUE FORCEPS, SEMKEN, 1X2 T., 12.5 CM	2
DRESSING FORCEPS, FINE, STR., 10 CM	2
MICRO FORCEPS, STR., 6X0.4 MM, 15 CM	1
MICRO NEEDLEHOLDER, STR., W. LOCK, 15 CM	1
MICRO NEEDLEHOLDER, STR., W. LOCK, 18 CM	1
MICRO NEEDLEHOLDER, CVD., W. LOCK, 15 CM	1
MICROSTOP MINISSET CONTAINER 310X189X90MM	1
TRAY, PERFORATED, MICRO, 235X130X50MM	1
SILICONE MAT F. MINISSET TRAY	1
IDENTIFICATION LABEL, W. TEXT, W/O HOLE	1
LOGISTIC FRAME, RED, F. CONTAINER	1
IDENT. LABLE, MINISSET CONT., W. TEXT	1

Tender Technical Specifications for Retractor Set Cervical:

Retractor, cerv., Caspar	1
Counter retract., Caspar, longitudinal	1
Blade, lateral, 8 T., 24x30 mm	1
Blade, lateral, 8 T., 24x35 mm	1
Blade, lateral, 8 T., 24x40 mm	1
Blade, lateral, 8 T., 24x45 mm	1
Blade, lateral, 8 T., 24x50 mm	1
Blade, lateral, 8 T., 24x55 mm	1
Blade, lateral, 8 T., 24x60 mm	1
Blade, lateral, 8 T., 24x65 mm	1
Blade, lateral, 8 T., 24x70 mm	1
Blade, medial, 5 T., 24x30 mm	1
Blade, medial, 5 T., 24x35 mm	1
Blade, medial, 5 T., 24x40 mm	1
Blade, medial, 5 T., 24x45 mm	1
Blade, medial, 5 T., 24x50 mm	1
Blade, medial, 5 T., 24x55 mm	1
Blade, medial, 5 T., 24x60 mm	1
Blade, medial, 5 T., 24x65 mm	1
Blade, medial, 5 T., 24x70 mm	1
Blade, long., blunt, 24x35 mm	1
Blade, long., blunt, 24x40 mm	1
Blade, long., blunt, 24x45 mm	1
Blade, long., blunt, 24x50 mm	1
Blade, long., blunt, 24x55 mm	1
Blade, long., blunt, 24x60 mm	1
Blade, long., blunt, 24x65 mm	1
Blade, long., blunt, 24x70 mm	1
Blade, long., blunt, 24x75 mm	1
Forceps f. change of blades	1
CONTAINER MS, 60X30X14 CM, HANDLE GREY	1
Tray DIN, 480x255x73 mm	1
COLOR-TAG, RED	2
CODING LABEL, WITH TEXT, WITHOUT HOLE	2

Tender Technical Specifications for Retractor Set Lumbar:

Discectomy-Speculum lumb., Caspar,5cm	1
Discectomy-Speculum lumb., Caspar,5.5cm	1
Discectomy-Speculum lumb., Caspar,6cm	1
Discectomy-counter retract.,lumb.,Caspar	1
Blade, medial f. 15-814-10-07, 5 cm	1
Blade, medial f. 15-814-10-07, 5.5 cm	1
Blade, medial f. 15-814-10-07, 6 cm	1
Blade, lateral f. 15-814-10-07, 5 cm	1
Blade, lateral f. 15-814-10-07, 5.5 cm	1
Blade, lateral f. 15-814-10-07, 6 cm	1
CONTAINER MS, 60X30X14 CM, HANDLE GREY	1
Tray DIN, 480x255x73 mm	1
COLOR-TAG, RED	2
CODING LABEL, WITH TEXT, WITHOUT HOLE	2

Tender Technical Specifications for Rhodon Set :

RHOTON DISSECTOR, LARGE, 19CM, NO.8	1
RHOTON HOOK, MEDIUM, SHARP 90° NO.8	1
RHOTON HOOK, BLUNT, 19CM, 90° NO.10	1
RHOTON HOOK, MEDIUM, SHARP 45° NO.11	1
RHOTON HOOK, NEEDLE, STRAIGHT, NO.12	1
RHOTON HOOK, CURETTE, SMALL, NO.13	1
RHOTON HOOK, CURETTE, LARGE, NO.14	1
RHOTON DISSECTOR, ROUND, 19CM, NR.1	1
RHOTON DISSECTOR, ROUND, 19CM, NR.2	1
RHOTON DISSECTOR, ROUND, 19CM, NR.3	1
RHOTON ELEVATOR, ANGLED, 19CM, NR.4	1
RHOTON ELEVATOR, CVD., 19CM, NR.5	1
RHOTON DISSECTOR, SMALL, 19CM, NR.6	1
RHOTON TEAR DROP DISS., STR.,19CM, NR.15	1
RHOTON TEAR DROP DISS., 90°,19CM, NR.16	1
RHOTON TEAR DROP DISS., 90°,19CM, NR.17	1
RHOTON TEAR DROP DISS., 40°,19CM, NR.18	1
RHOTON TEAR DROP DISS., 40°,19CM, NR.19	1
CONTAINER MS, 30X30X14 CM, HANDLE GREY	1
Tray 1/2, 243x255x73 mm	1
COLOR-TAG, RED	2
CODING LABEL, WITH TEXT, WITHOUT HOLE	2
Silicone mesh f. tray 1/2, 23x25 CM	1

Tender Technical Specifications for Shunt Set:

SCALPEL HANDLE, NO. 4, 13.5 CM	2
SCALPEL HANDLE, NO. 3, 12 CM	1
SCISSORS, MAYO, STR., 14.5 CM	1
DISSECTING SCISSORS, STR., 18 CM	1
TISSUE FORCEPS, ADSON, 1X2 T., 12 CM	2
TISSUE FORCEPS, TAYLOR, 1X2 T., 17 CM	1
HAEM. FORCEPS, MOSQUITO, STR., 12.5 CM	6
HAEM. FORCEPS, MOSQUITO, CVD., 12 CM	6
FORCEPS, KOCHER, 1X2 T., CVD., 16 CM	6
TOWEL FORCEPS, BACKHAUS, SHARP, 13 CM	4
FORCEPS, FOERSTER, SERR., STR., 25 CM	1
SPREADER, JANSEN, BLUNT, 3X3 T., 10 CM	1
SUCTION TUBE, FRAZIER, 3.3 MM, 19.5 CM	3
HAND DRILL, HUDSON, COMPLETE, 28 CM	1
BURR, CONE SHAPE, HUDSON, NO. 3	1
BURR, FLAT TYPE, CUSHING, 14 MM WIDE	1
BONE CURETTE, BRUNS, OVAL, NO. 2, 23 CM	1
ELEVATOR, LANGENBECK, 7 MM, 19.5 CM	1
CLIP APPL. FORCEPS, OLIVECRONA-TOENNIS	1
DAVIS NERVE SEPARATOR SEMISHARP, 21,5CM	2
DURA HOOKLET, FRAZIER, SHARP, 13 CM	2
CONE VENTRICULAR NEEDLE, 1,2X89MM	2
CONE VENTRICULAR NEEDLE, 1,8X89MM	2
MC KENZIE CLIP RACK FOR 20 CLIPS	1
SKALPELLGRIFF 22 CM GERADE 7L	1
MCKENZIE BRAIN CLIPS	1
HOFFMAN SHUNT PASSER (Long and Short)	2
CONTAINER MS, 30X30X14 CM, HANDLE GREY	1
Tray 1/2, 243x255x73 mm	1
COLOR-TAG, RED	2
CODING LABEL, WITH TEXT, WITHOUT HOLE	2

Tender Technical Specifications for Transoral Spine Set:

Crockard transoral retractor body	1
Crockard large tongue retractor blade	1
Crockard small tongue retractor blade	1
Crockard 90 deg retractor blade	2
Crockard curved retractor blade	2
Crockard retractor blade connector	2
Crockard suction tube holder, short	1
Crockard suction tube holder, long	1
Crockard hard palate retractor	1
Crockard pharyngeal retractor, small	1
Crockard pharyngeal retractor, large	1
Crockard odontoid peg grasping forceps	1
Crockard ligament grasping forceps	1
Crockard sterilizing/storage case	1
CONTAINER MICROSTOP 60X30X14 CM	1
Tray DIN, 480x255x73 mm	1
COLOR-TAG, RED	2
CODING LABEL, WITH TEXT, WITOUT HOLE	2

Note:

1. The above instrument should confirm to all international safety slandered and certified of FDA, CE, UL or BIS.
2. The above instrument are to be offered with 3years warranty.
3. The above instrument **should come with sterilizable container.**
4. Comprehensive training for staff and support services till familiarity with the system.

SCHEDULE-4

Annexure-I

PROFORMA FOR PERFORMANCE STATEMENT

(For the period of last three years)

IFB No. : SMEJ/JMCH/1699/2015/4804 dated 30.07.2015

Date of opening : 21.08.2015

Time : 04:00 PM

Name and address of the bidder:

Name and address of the manufacturer:

Order placed by (full address of Purchaser with phone number)	Order number and date	Description and quantity of ordered goods and services with the warranty period for similar nature of works.	Value of Order* (Rs.)	Date of completion of Contract		Remarks indicating reasons for delay if any	Have the goods been functioning Satisfactorily (attach documentary proof)
				As per contract	Actual		

Signature and seal of the bidder

* Value including all taxes.

Annexure-II

BID FORM AND PRICE SCHEDULES

IFB No.

Date

To

The Director of Medical Education, Ghy, Assam.

Through the Principal-cum-Chief- Supdt. J.M.C. & H. Jorhat.

Gentlemen,

Having examined the bidding documents the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver (description of goods and services) in conformity with the said bidding documents for the sum of (total bid amount in words and figures) or such other sums as may be ascertained in accordance with the schedule of prices attached herewith and made part of this bid.

We undertake, if our bid is accepted, to commence delivery within (number) days and to complete delivery of all the items specified in the contract and to perform all the incidental services within (number) days calculated from the date of your notification of award.

If our bid is accepted, we will obtain the guarantee of a bank in a sum not exceeding 5 (Five) percent of the contract price for the due Performance of the contract.

We agree to abide by this bid for a period 365 days from the date of opening of the bid (please specify the calculated date) and it shall remain bidding up on us and may be accepted at any time before the expiration of that period.

Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award shall constitute a binding contract between us.

We understand that you are not bound to accept the lowest or any bid you may receive.

Dated this.....day of

Signature

(in the capacity of)

Duly authorized to sign tender for and on behalf of

Annexure-III

PRICE SCHEDULE FOR DOMESTIC GOODS OR GOODS OF FOREIGN ORIGIN LOCATED WITHIN INDIA

Sl. No.	Item Description	Country of Origin	Quantity	Price per unit						Unit Price Including Ex-cise Duty [a+b+c + d+e+f]	Total Price Including Excise Duty 4x6	Sales and other Taxes/ duties Payable, if Contract is awarded
				Ex-factory/ Ex-warehouse/ Ex-show-room/ Off-the shelf (a)	Excise Duty (if any) (b)	Packing and For-warding ©	Inland Trans-potation (d)	Insu-rance and Incidental costs (e)	Inci-den-tal Services (including supervi-sion) (f)			
1	2	3	4	5						6	7	8

Total bid price in Rupees:

In words:

Signature of bidder

Date:

Name

Place:

Business Address

NOTE:

(i) In case of discrepancy between unit price and total price, the unit price shall prevail.

Annexure-IV
BANK GUARANTEE FORM FOR PERFORMANCE SECURITY/ CMC
SECURITY

To **The** (Name and address of the purchaser). WHEREAS _____
(Name and address of the supplier) (Hereinafter called "the supplier") has undertaken, in
pursuance of contract no _____ dated _____ to supply
(description of goods and services) (herein after called "the contract"). AND WHEREAS it has
been stipulated by you in the said contract that the supplier shall furnish you with a bank
guarantee by a scheduled commercial bank recognized by you for the sum specified therein as
security for compliance with its obligations in accordance with the contract; AND WHEREAS
we have agreed to give the supplier such a bank guarantee; NOW THEREFORE we hereby
affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of.
_____ (Amount of the guarantee in words and figures), and we undertake
to pay you, upon your first written demand declaring the supplier to be in default under the
contract and without cavil or argument, any sum or sums within the limits of (amount of
guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your
demand or the sum specified therein. We hereby waive the necessity of your demanding the
said debt from the supplier before presenting us with the demand. We further agree that no
change or addition to or other modification of the terms of the contract to be performed there
under or of any of the contract documents which may be made between you and the supplier
shall in any way release us from any liability under this guarantee and we hereby waive notice
of any such change, addition or modification. This guarantee shall be valid up to 62 months
from the date of satisfactory installation of the equipment i.e. up to ----- (indicate date).
..... (Signature with date of the authorized officer of the Bank)
..... Name and designation of the officer
.....
.....
Seal, name & address of the Bank and address of the Branch

Annexure – V

**DECLARATION
On
Manufacturing facilities / After Sales Service**

Tender enquiry No

For supply of

- 1 Name of the bidder
- 2 Full Postal Address
- 3 Telephone No./Fax No.
- 4 Email address
- 5 Date of inception of business
- 6 Registration no. & Date
- 7 Issued by
- 8 Valid till
- 9 Details of manufacturing activity &
item wise capacity
- 10 Detail of After Sales Service facilities available locally
Name of the Agency

Full Postal Address

Phone / Fax / E-mail

- 11 Name of person responsible for 10 above

Sl. No.	Name	Designation	Age	Residential Address

- 12 Has the bidder ever been black listed by any govt. agency? If yes, give details
- 13 Has any cases pending in the court related to any supplies? If yes, give details
- 14 Does the firm have the adequate

facilities for inspection and quality control? Please give details

I, _____ Proprietor/ Partner /Director of
M/s _____ hereby declare that
the information given in this form is true and correct to the best of my knowledge & belief. I/we
agree to the tender Inviting Authority forfeiting the Earnest Money Deposit and/or Performance
Security Deposit and blacklisting us for a period of 5 years, if any information furnished by us
proved to be false at the time of inspection and non – compliance with terms and conditions of
the contract

I offer to supply the items mentioned in the schedule (enclosed in price bid) at the rates quoted
therein. I agree to hold this offer for one year after finalization of rate contract.

Dated:

Signature

Name of the bidder

Address

ANNEXURE-VI

ANNUAL TURN OVER STATEMENT

The Annual Turnover of M/s_____ for the past three years and concurrent commitment for the current financial year are given below and certified that the statement is true and correct.

Sl. No	Year	Turnover (Rs. in lakhs)
1	2012-13	
2	2013-14	
3	2014-15	
	Total	
	Average turnover per annum	

Date:
Seal:

Signature of Auditor/ Chartered Accountant
(Name in Capital)

Annexure-VII

UNDERTAKING

To

The Director of Medical Education, Ghy, Assam.
Through the Principal-cum-Chief- Supdt. J.M.C. & H...Jorhat.

IFB NO. _____

Sir,

1. I, Shri _____, on behalf of M/s _____ having registered office at _____, do hereby declare that I have gone through the terms and conditions mentioned for the above and undertake to comply with all tender terms and conditions. The rates quoted by me/us are valid and binding on me/us for acceptance for a period of one year from the date of award of contract to us.
2. I/We undersigned hereby bind myself/ourselves to the purchaser to supply all the offered equipment. The rates quoted by me/us for the items tendered for are specified against each. It is certified that rates quoted are lowest quoted for any institution in India and not higher than the **MRP/ prevailing market rate**.
3. The articles shall be strictly as per specification and of the best quality as per requirement of the institution. The decision of the Office of The Director of Medical Education, Assam (hereinafter called the said Director) as regards to the quality and specification of article shall be final and binding on me/us.
4. We undertake to provide back up services of Trained Technical Personnel on round-the-clock basis for emergency problem.
5. We undertake and confirm that the equipment shall be covered by our standard warranty as shown in the requirement. In case of any defect reported, the defective part shall be replaced.
6. We shall organize technical seminars / workshops at various locations within the State to impart education and training to the medical professionals as and when requested by the purchaser.
7. We agree to the conditions of the tender under which the EARNEST MONEY DEPOSIT and PERFORMANCE SECURITY DEPOSIT shall be forfeited by us.
8. We agree to accept the amount of the bill to be paid by the purchaser after completion of all codal formalities and should any amount of the bill found by the

purchaser/auditors to have been over-paid; the amount so found shall be refunded by me/us.

9. We hereby undertake to supply the items during the validity of the tender as per direction given in supply order within the stipulated period.
10. We understand all the terms and conditions of the contract and bind myself/ourselves to abide by them.
11. We hereby declare that there is no vigilance/anti-corruption or court case pending against us at the moment.

SIGNATURE :

NAME & DESIGNATION :

DATE :

NAME & ADDRESS OF
THE FIRM :

SEAL :

ANNEXURE-VIII

**UNDERTAKING
ON
FRAUD AND CORRUPTION**

We M/s Do hereby undertake that, in competing for (and, if the award is made to us, in executing) the subject contract for supply of Equipment under tender reference no. Dt We shall strictly observe the laws against fraud and corruption in force in the country.

Sd/-

Signature of proprietor/Partner/Director

Designation:

Seal:

Annexure-IX
MANUFACTURERS' AUTHORISATION FORM

To,
The Principal-cum-Chief- Supdt. J.M.C. & H.Jorhat.

Dear Sir,

IFB No. _____

We _____, who are established and reputable manufacturers of _____, having factories at _____ and _____, hereby authorize Messrs. _____ (name and address of agents) to bid, negotiate and conclude the contract with you against IFB No. _____ for the above goods manufactured by us.

No company or firm or individual other than Messrs. _____ are authorized to tender negotiate and conclude the contract in regard to this business against this specific IFB as also for all business in the entire territory of India.

An agency commission of _____% included in the gross ex-works price is payable to Messrs. _____

We hereby Certify that the Machine / spare parts do not contain any recycled or reconditioned parts or components

We hereby extend our full guarantee and warranty as per clauses of contract for the goods offered for supply against this Invitation for Bid by the above firm.

Our other responsibilities include:

- (i) _____
 - (ii) _____
- (here specify in detail manufacturer's responsibilities)

The services to be rendered by Messrs. _____ are as under:

- (i) _____
 - (ii) _____
- (here specify the services to be rendered by the agent).

Yours faithfully,
(name)

For and on behalf of Messrs. _____ (name of manufacturer)

NOTE: This letter of authorization should be on the letterhead of the manufacturing concern and should be signed by a person competent and having the power of attorney to bind the manufacturer. **A copy of notarized power of attorney should also be furnished.**

ANNEXURE-X

AGREED TERMS & CONDITIONS

IFB No. _____

A. Details of Bidder

Bidder	
Offer Ref	
Contact Person:	
Telephone No.	
Fax No.	
E-mail:	
Signature:	

B. Definitions

1. “Purchaser” means Principal-cum-Chief- Supdt. J.M.C. & H.Jorhat.or his authorized representative.
2. “Bidder” or “Tenderer” means a person or firm or company who has made an offer for supply of goods and /or service as per tender.
3. “Vendor” or “Supplier” means a person or firm or company, to whom the order is addressed for supply of goods and /or services.
4. “Site” means the premises of the Medical Colleges of Assam or any other place as decided by the purchaser.

NOTE: The questionnaire below must be duly filled in and should be enclosed with the bid. Clauses confirmed here under should not be repeated. All commercial terms and conditions should be indicated in this format. If necessary, details including deviations to the terms and conditions of the bid document, if any, should be enclosed as annexure to this questionnaire. Clauses not applicable or not relevant may be marked NA.

Sl. No.	Description	<u>Vendor's Confirmation</u> (Confirmed/Noted/Deviation/ furnished separately)
C. Technical		
1.	Confirm that you meet the eligibility criteria as per bid document and have furnished relevant documents.	
2.	Confirm acceptance of Technical Specification And scope of supply as per Tender Document.	
3.	In case of deviations, confirm that the same have been highlighted separately.	
4.	Confirm that equipment catalogue and technical data, wherever applicable, have been enclosed.	
5.	Confirm that all certificates/ deviations furnished.	
6.	Confirm that Earnest Money Deposited (EMD) as per bid document, for each schedule quoted, enclosed.	
D. Commercial		
1.	It is noted that any deviations to the commercial terms and conditions shall lead to loading of prices or rejection of offer.	
2.	Confirm that the quoted prices are on duly installed and commissioned at site basis including packing & forwarding (P & F) all duties and taxes viz. Excise Duty, Sales Tax/VAT, freight, insurance, installation & commissioning at site.	
3.	Confirm furnishing of detail price break-up of each item showing all components of cost separately with basic price of equipment and other costs on %age of basic price to arrive at landed price in D2 above.	
4.	It is noted that the statutory variations in taxes and duties within the Contractual delivery period shall be borne by the purchaser.	
5.	If there is any variation or fresh imposition of Excise Duty at the time of supply due to various reasons, including turn-over, confirm that the same shall be borne by you.	
6.	It 5 above is not acceptable, advise maximum possible rate of ED chargeable, which shall be loaded to you price.	
7.	Confirm that in case of delay on you account any new or additional duties and taxes imposed after the contractual delivery date shall be to you account. This will be in addition to Price Reduction for Delay in Delivery.	
8.	Confirm acceptance of Price Reduction Schedule for delay in Delivery @ 0.5% of delayed value of goods per week of delay or part thereof subject to maximum of 10% of the total order of value.	
9.	Indicate Firm Delivery Period, which shall be	

	counted from the date of placement of order and date of commissioning and acceptance of the installed equipment by purchaser's representative shall be considered as the delivery completion date.	
10.	Confirm acceptance of relevant payment terms specified in the bid document.	
11.	Force Majeure—Delivery period, price reduction termination etc are subject Force Majeure Condition as stipulated in the bid document.	
12.	Confirm that the quoted prices shall remain firm & fixed till complete execution of the order.	
13.	a) In case you are a manufacturer confirm that the prices quoted are not higher in any respect than quoted / agreed prices to any Govt. or Public Medical Institution. b) In case you are a dealer/ distributor / authorized agent, confirm that the prices quoted are as per manufacturer's price list with appropriated discount (Copy of Price list to be enclosed).	
14.	a) Confirm that all inspection & testing charges including 3 rd party inspection (if required) included in the price. b) Quality Control Reports and Test Certificates, whenever applicable, shall be handed over to the purchaser along with the equipment.	
15.	a) Confirm that erection, commissioning, trial run and handing over to the purchaser, after successful commissioning is your responsibility at no extra cost. b) Specify facilities (if any), like water supply/ electric power to be provided by the purchaser for commissioning of the equipment.	
16.	Packing / forwarding, transportation, loading/ unloading and insurance are your responsibility. However, to protect the equipment from physical damages and/or deterioration due to weather during transit, you are to ensure proper packing & lifting arrangement. Pl confirm compliance.	
17.	The material / equipment shall be guaranteed against any and all defects in design, workmanship, material & performance for a period shown in the Technical specification, from the date of commissioning and handing over to the purchaser. Should any defect detected or develop during the guarantee period, it shall be remedied promptly free of cost by the supplier and all expenses including transportation of goods necessitated for such repair and replacement shall be done by the supplier. Pl confirm acceptance.	
18.	Confirm that Performance Bank Guarantee shall	

	be furnished for 5% of the total order value valid till guarantee period of the goods.	
19.	Confirm acceptance of Part order.	
20.	Confirm acceptance of Repeat order within 12 months from the date of basic order at same price and terms & conditions.	
21.	It is noted that the purchaser would disown any responsibility / liability toward irregularity, contravention or infringement of any statutory regulations including those of patent, on manufacture or supply of goods covered by the order.	
22.	Terms & Conditions indicated in this format shall not be repeated in the bid. Terms & Condition indicated elsewhere and contradicting those in this format shall be ignored. Confirm compliance.	
23.	Confirm that you shall observe the highest standard of ethics during bidding and in case favoured with an order, during execution of the order, without resorting to any fraud, corruption and/or coercion.	
24.	Confirm that the offer shall be valid for a period of 365 days from the date of bid opening.	

Annexure-XI

EMD (BID SECURITY) FORM (BANK GUARANTEE)

Whereas.....[name of bidder] (hereinafter called “the bidder”) has submitted his tender dated(date)for the supply of.....(hereinafter called “the bid”).

KNOW ALL MEN by these presents that we ofhaving registered office at (hereinafter called “the bank”) are bound up to the Governor of Assam(hereinafter call “the purchaser”) in the sum of for which payment well and truly to be, made to the said purchaser, the bank binds itself, its successors and assigns by these presents.

Sealed with the common seal of the said bank this day of, 2015.

The conditions of this obligation are:

1. If the bidder withdraws its bid during the period of bid validity specified by the bidder on the bid form or
2. If the bidder, having been notified of the acceptance of its bid by the purchaser during the period of bid validity.
 - (a) fails or refuses to execute the contract form, if required or;
 - (b) fails or refuses to furnish the Performance Security, in accordance with the clauses of the tender.

We undertake to pay to the purchaser up to the above amount upon receipt of its first written demand, without the purchaser having to substantiate its demand, provided that in its demand the purchaser will note that the amount claimed by it, is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including 90 (Ninety) days after the period of bid validity or as it may be extended by the purchaser, notice of which extension(s) to the bank is hereby waived and any demand in respect thereof should reach the bank not later than the above date.

Signature of the bank

Seal

Date.....

Place.....

Witness.....

.....
(signature, name and address)

Annexure-XII

PERFORMANCE SECURITY FORM (BANK GUARANTEE)

To

The Director of Medical Education, Ghy, Assam.

Through the Principal-cum-Chief- Supdt. J.M.C. & H.Jorhat.

Whereas.....
(name and address of the supplier) (hereinafter called “the supplier”) has undertaken, in pursuance of contract No.....dated.....2015 to supply (description of goods and services (hereinafter called “the contract”).

And whereas it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a recognized bank for the sum specified therein as security for compliance with its obligations in accordance with the contract.

And whereas we have agreed to give the supplier such a bank guarantee.

Now therefore we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of(amount of the guarantee in words and figures), such sum being payable in the types and proportions of currencies in which the contract price is payable, and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid for the entire period of warranty from the date of completion of order.

Place and Date

Signature and seal of the guarantor

Annexure-XIII

CONTRACT FORM

(To be stamped as an agreement in the court stamp paper valued Rs. 100/-)

This agreement made theday of..... 2015 between the Jorhat Medical College & Hospital, Jorhat (hereinafter “the purchaser”) of the one part and (name of supplier) of (address, city and country of supplier) (hereinafter “the supplier”) of the other part.

Whereas the purchaser is desirous that certain goods and ancillary services, viz. (brief description of goods and services) and has accepted a bid by the supplier for supply of those goods and services in the sum of (contract price in words and figures) (hereinafter “the contract price”).

Now this Agreement witnesses as follows:

01.The following documents shall be deemed to form and be read and construed as part of this agreement, viz.:

- (a) the Technical Specifications,
- (b) the Terms and Conditions of the Tender Document
- (c) the Supplier’s bid and original Price Schedules and
- (d) the Purchaser’s Notification of Award

02. In consideration of the payments to be made by the purchaser to the supplier as hereinafter mentioned, the supplier hereby covenants with the purchaser to provide the goods and services and to remedy defects therein in conformity in all respects with the provisions of the contract.

03.The purchaser hereby covenants to pay the supplier in consideration of the provision of the goods and services and the remedying of defects therein, the contract price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract. Brief particulars of the goods and services which shall be supplied/provided by the supplier are as under:

SL. No.	Brief description Of goods/services	Quantity to be supplied	Unit price	Delivery terms (FOB/CIF/FOR etc)

Total value:

Delivery schedule:

In witness whereof the parties hereto have caused this agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, sealed and delivered by the said..... (for the purchaser)
in the presence of

Signed, sealed and delivered by the said (for the supplier)
in the presence of.....